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A Semimonthly Publication of the Water Resources Scientific Information Center, Office of Water Research and Technology, U.S. Department of the Interior

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Secretary of the U.S. Department of the Interior has determined that the publication of this periodical is necessary in the transaction of the public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director of the Office of Management and Budget through August 31, 1978.

As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering the wisest use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to assure that their development is in the best interests of all our people. The Department also has a major responsibility for American Indian reservation communities and for people who live in Island Territories under U.S. administration.

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FOREWORD

Selected Water Resources Abstracts, a semimonthly journal, includes abstracts of current and earlier pertinent monographs, journal articles, reports, and other publication formats. The contents of these documents cover the water-related aspects of the life, physical, and social sciences as well as related engineering and legal aspects of the characteristics, conservation, control, use, or management of water. Each abstract includes a full bibliographical citation and a set of descriptors or identifiers which are listed in the **Water Resources Thesaurus** (Second Edition, 1971). Each abstract entry is classified into ten fields and sixty groups similar to the water resources research categories established by the Committee on Water Resources Research of the Federal Council for Science and Technology.

WRSIC IS NOT PRESENTLY IN A POSITION TO PROVIDE COPIES OF DOCUMENTS ABSTRACTED IN THIS JOURNAL. Sufficient bibliographic information is given to enable readers to order the desired documents from local libraries or other sources.

Selected Water Resources Abstracts is designed to serve the scientific and technical information needs of scientists, engineers, and managers as one of several planned services of the Water Resources Scientific Information Center (WRSIC). The Center was established by the Secretary of the Interior and has been designated by the Federal Council for Science and Technology to serve the water resources community by improving the communication of water-related research results. The Center is pursuing this objective by coordinating and supplementing the existing scientific and technical information activities associated with active research and investigation program in water resources.

To provide WRSIC with input, selected organizations with active water resources research programs are supported as "centers of competence" responsible for selecting, abstracting, and indexing from the current and earlier pertinent literature in specified subject areas.

Additional "centers of competence" have been established in cooperation with the Environmental Protection Agency. A directory of the Centers appears on page iv.

The input from these Centers, and from the 53 Water Resources Research Institutes administered under the Water Resources Research Act of 1964, as well as input from the grantees and contractors of the Office of Water Research and Technology and other Federal water resources agencies with which the Center has agreements becomes the information base from which this journal is, and other information services will be, derived; these services include bibliographies, specialized indexes, literature searches, and state-of-the-art reviews.

Comments and suggestions concerning the contents and arrangements of this bulletin are welcome.

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- Ground and surface water hydrology at the Illinois State Water Survey.
- Metropolitan water resources planning and management at the Center for Urban and Regional Studies of University of North Carolina.
- Eastern United States water law at the College of Law of the University of Florida.
- Policy models of water resources systems at the Department of Water Resources Engineering of Cornell University.
- Water resources economics at the Water Resources Center of the University of Wisconsin.
- Eutrophication at the Water Resources Center of the University of Wisconsin.
- Water resources of arid lands at the Office of Arid Lands Studies of the University of Arizona.
- Water well construction technology at the National Water Well Association.
- Water-related aspects of nuclear radiation and safety at the Oak Ridge National Laboratory.
- Water resource aspects of the pulp and paper industry at the Institute of Paper Chemistry.

Supported by the Environmental Protection Agency in cooperation with WRSIC

- Effect on water quality of irrigation return flows at the Department of Agricultural Engineering of Colorado State University.
- Agricultural livestock waste at East Central State College, Oklahoma.
- Municipal wastewater treatment technology at the Franklin Institute Research Laboratories.

A NOTE ON THE INDEXES...

This cumulation is an index of AUTHORS, ORGANIZATIONS, AND ACCESSION NUMBERS appearing in the 1976 issues of SELECTED WATER RESOURCES ABSTRACTS. A table is provided below to facilitate the location of abstracts.

Inclusive Abstract Numbers	will be found in	Issue Number and Date	
W76-00001--W76-00500	"	1	January 1, 1976
W76-00501--W76-01000	"	2	January 15, 1976
W76-01001--W76-01500	"	3	February 1, 1976
W76-01501--W76-02000	"	4	February 15, 1976
W76-02001--W76-02500	"	5	March 1, 1976
W76-02501--W76-03000	"	6	March 15, 1976
W76-03001--W76-03500	"	7	April 1, 1976
W76-03501--W76-04000	"	8	April 15, 1976
W76-04001--W76-04500	"	9	May 1, 1976
W76-04501--W76-05000	"	10	May 15, 1976
W76-05001--W76-05499	"	11	June 1, 1976
W76-05501--W76-06150	"	12	June 15, 1976
W76-06151--W76-06800	"	13	July 1, 1976
W76-06801--W76-07450	"	14	July 15, 1976
W76-07451--W76-08100	"	15	August 1, 1976
W76-08101--W76-08750	"	16	August 15, 1976
W76-08751-W76-09400	"	17	September 1, 1976
W76-09401--W76-10000	"	18	September 15, 1976
W76-10001--W76-10500	"	19	October 1, 1976
W76-10501--W76-11100	"	20	October 15, 1976
W76-11101--W76-11625	"	21	November 1, 1976
W76-11626--W76-12150	"	22	November 15, 1976
W76-12151--W76-12675	"	23	December 1, 1976
W76-12676--W76-13200	"	24	December 15, 1976

LIBRARY U. OF I. URBANA-CHAMPAIGN

AUTHOR INDEX

A-FERNANDEZ, E.
Some Observations on the Contamination of the Coastal Waters of the City of Cumana, (In Spanish),
W76-12467 9-23 5B

AAGAARD, K.
Toward New Mass and Heat Budgets for the Arctic Ocean,
W76-01297 9-03 2C

Upwelling Near Samalga Pass,
W76-09585 9-18 2L

AARKROG, A.
Radiochemical Determination of Plutonium in Marine Samples by Ion Exchange and Solvent Extraction,
W76-08614 9-16 5A

ABBASS, A. K.
The Effect of Texture Stratification on Salt Accumulation in an Arid Land Soil,
W76-01112 9-03 2K

ABBI, S. D. S.
Extreme Rainfall Studies of the Brahmani, The Burhabalang, The Rushikulya and the Subarnarekha River Catchments,
W76-08733 9-16 2B

Rainfall and Floods in India During 1974 Southwest Monsoon Period,
W76-08732 9-16 2B

ABBOTT, J. W.
Use of the Computer Program 'STORM' for Analysis of the Quantity and Quality of Urban Storm Water Runoff,
W76-09740 9-18 5B

ABBOTT, M. B.
River and Estuary Modeling with the Siva System,
W76-09982 9-18 2A

Systems Modeling of Stratified Fluids,
W76-09976 9-18 8B

ABDEL'MOTTALIB, M. A.
Characteristics of the Quality of Irrigation Water on the Bagaevsk-Sadkovsk Irrigation System, (In Russian),
W76-11566 9-21 5B

ABDRASHITOVA, S. A.
Abundance and Biomass of Bacterioplankton of 'Tastaka' Ponds, (In Russian),
W76-08664 9-16 5C

ABDUL-HALIM, R. K.
A Proposal for Future Utilization of Tharthar Lake Water,
W76-06577 9-13 3C

ABDUL KHADER, M. H.
Studies on a Well Penetrating a Two-Aquifer System,
W76-00401 9-01 8B

ABDULLAH, Z.
Regulation of Nitrate Assimilation by Amino Acids in Chlorella,
W76-13119 9-24 5C

ABE, A.
Process of Treating Waste Water,
W76-01726 9-04 5D

ABE, S.
Cyanide Compound Recovery by Impact Method and Reuse of Wastewater (Shogekiho ni yoru shian-kagobutsu no kaishu to haisui no sairiyo),
W76-07753 9-15 5D

ABEL, F. H.
Project-by-Project Analysis VS. Comprehensive Planning,
W76-11163 9-21 5G

ABEL, G. H.
Effects of Irrigation Regimes, Planting Dates, Nitrogen Levels, and Row Spacing on Safflower Cultivars,
W76-11515 9-21 3F

ABEL, J. F.
Finite Element Mesh Gradation for Surface Waves,
W76-05919 9-12 8E

ABEL, M. E.
Irrigation Systems in Taiwan: Management of a Decentralized Public Enterprise,
W76-09848 9-18 3F

ABELE, G.
Compressibility Characteristics of Undisturbed Snow,
W76-00537 9-02 2C

ABELE, T. G.
Package Aerobic Waste Treatment System,
W76-04280 9-09 5D

ABENDT, R. W.
Models in Water Quality Planning,
W76-11882 9-22 5B

ABER, H. S.
Process of Water Treatment,
W76-10971 9-20 5F

Water Treatment Device with Transitorized Circuit,
W76-11833 9-22 5F

ABERLEY, R. C.
Advances in Wastewater Treatment in Melbourne: South Eastern System,
W76-00784 9-02 5D

ABOOD, K. A.
Hudson River Striped Bass Life Cycle Model,
W76-08634 9-16 5C

ABOU-SEEDO, F.
Polystyrene Spherules in the Severn Estuary-A Progress Report,
W76-11819 9-22 5B

ABRAHAMS, A. D.
Topologically Random Channel Networks in the Presence of Environmental Controls,
W76-02408 9-05 8B

ABRAHAMS, H. J.
The Water Supply of Rome,
W76-07819 9-15 4A

ABRAMOVA, A. V.
Use of Investment Models and Choice of Alternative Decisions for the Optimum Distribution of Water Resources at the Stage of Planning by Means of Computers,
W76-12561 9-23 6A

ABRAMS, E. F.
Identification of Organic Compounds in Effluents from Industrial Sources,
W76-11598 9-21 5A

ABRAMS, L. W.
Corrective Taxes for Pollution Control: An Application of the Environmental Pricing and Standards Systems to Agriculture,
W76-06618 9-13 5G

ABUKISHK, B. A.
Efficient Resource Utilization Within a Regional Framework.
W76-08102 9-16 6B

ABYLGAZIEV, B. A.
Sanitary and Hygienic Characteristics of Water Supply Sources of the Population of the Kugart River Basin, (In Russian),
W76-07047 9-14 5F

ACCOMAZZO, M. A.
High Temperature Electrodialysis - Phase V,
W76-03148 9-07 3A

ACHESON, M. A.
Factors Affecting the Extraction and Analysis of Polynuclear Aromatic Hydrocarbons in Water,
W76-09200 9-17 5A

ACHTNICH, W.
Recent Developments in Water Distribution and Application with Special Reference to Sprinkler Irrigation,
W76-01887 9-04 3F

ACKERMANN, H.
Geophysical Prospecting for Ground Water in Alaska,
W76-11496 9-21 4B

ACKERMANN, N. L.
Effects of Overbank Flow in Flood Computations,
W76-12976 9-24 2E

ACKERMANN, W. C.
The Future of Water Resources in Northeastern Illinois,
W76-03755 9-08 6D

ADACHI, S.
Method for Insolubilizing Water Soluble Chromate in Chrome Waste Residue,
W76-07526 9-15 5D

ADAIR, W. D.
Saturation Values of Dissolved Gases Associated with the Occurrence of Gas-Bubble Disease in Fish in a Heated Effluent,
W76-03466 9-07 5C

Thermal and Water Quality Characteristics of Lake Norman,
W76-05872 9-12 5C

ADAM, D. P.
Geomorphic Evidence for Late Holocene Tilting in Southern San Mateo County, California,
W76-02960 9-06 2J

A Late Holocene Pollen Diagram from Near Lake Tahoe, El Dorado County, California,
W76-03897 9-08 2I

A Late Holocene Pollen Record From Pearson's Pond, Weeks Creek Landslide, San Francisco Peninsula, California,
W76-03896 9-08 2I

ADAMCZYK, L. H.
Ictalurus Nebulosus (Le Sueur, 1819) in a Lake Biocenosis, (In Polish),
W76-06765 9-13 2H

ADAMEC, J.
Control of Aquatic Vegetation in New York State,
W76-05467 9-11 5C

ADAMIK, V.
Comparison of some Calculation Methods for Rainwater Runoff (Vergleich Einiger Berechnungsmethoden von Regenwasser-Kanalisationen),
W76-01426 9-03 2A

ADAMOWSKI, K.
Application of Linear Programming Optimization to a Northern Ontario Hydro Power System,
W76-08074 9-15 4A

Time Series Analysis of a Watershed Response Variable,
W76-02699 9-06 2E

ADAMS, A. D.
Activated Carbon: Old Solution to Old Problem, Part I,
W76-00239 9-01 5D

Activated Carbon: Old Solution to Old Problem, Part II,
W76-03443 9-07 5F

ADAMS, A. P.
Ammonia Removal from Wastewaters: A Review of the State of the Art,
W76-12853 9-24 5D

ADAMS, B. L.
Inhibition of Salt Water Survival and Na-K-ATPase Elevation in Steelhead Trout (Salmo Gairdneri) by Moderate Water Temperatures,
W76-03778 9-08 5C

ADAMS, C. E.
Design and Performance of Physical-Chemical and Activated Sludge Treatment for an Edible Oil Plant,
W76-08293 9-16 5D

How Mills Cope with Effluent Suspended Solids,
W76-05107 9-11 5D

Physical-Chemical and Biological Treatability Investigations and Process Design for a Tall Oil Waste Water,
W76-00049 9-01 5D

ADAMS, C. E. JR.
Estimating Water Temperatures and Time of Ice Formation on the Saint Lawrence River,
W76-07765 9-15 2E

ADAMS, D. B.
Lakes in the Colorado Springs--Castle Rock Area, Front Range Urban Corridor, Colorado,
W76-12797 9-24 7C

ADAMS, E. E.
Temperature Predictions for Offshore Power Plants,
W76-09960 9-18 5B

ADAMS, E. S.
Effects of Lead and Hydrocarbons from Snowmobile Exhaust on Brook Trout (Salvelinus Fontinalis),
W76-01904 9-04 5C

ADAMS, F.
Soil Phosphorus Availability as Measured by Displaced Soil Solutions, Calcium-Chloride Extracts, Dilute-Acid Extracts, and Labile Phosphorus,
W76-00825 9-02 3C

ADAMS, G. F.
Emory Oak (Quercus Emoryi) Litter Phenolics as Environmental Hazards for Aquatic Animals in Southeastern Arizona,
W76-06125 9-12 5B

ADAMS, J. R.
Zooplankton Survival in Cooling Water Systems of Four Thermal Power Plants on the California Coast-Interim Report. March 1971-January 1972,
W76-08630 9-16 5C

ADAMS, M. V.
Mineral Resource Management of the Outer Continental Shelf.
W76-09306 9-17 6G

Regulation and Supervision of Outer Continental Shelf Operations on the Pacific Coast,
W76-11005 9-20 5G

ADAMS, R. C.
Method of Operating Ion Exchange System,
W76-05983 9-12 5F

ADAMS, R. L.
The Dry Deep Pit System,
W76-05172 9-11 5D

ADAMS, R. M.
A Quadratic Programming Approach to the Production of California Field and Vegetable Crops Emphasizing Land, Water and Energy Use,
W76-11326 9-21 3F

ADAMS, S. N.
Some Relations Between Forest Litter and Growth of Sitka Spruce on Poorly Drained Soils,
W76-05687 9-12 2I

ADAMS, V. D.
Naturally Occurring Organic Compounds and Algal Growth in a Eutrophic Lake,
W76-05253 9-11 5C

Nutrient Dynamics and Gas Production in Aquatic Ecosystems: The Effects and Utilization of Mercury and Nitrogen in Sediment-Water Microcosms,
W76-05246 9-11 5C

Organic Residue in Recycled Effluent, Part II,
W76-00646 9-02 5D

Sediment-Water Microcosms for Assessment of Nutrient Interactions in Aquatic Ecosystems,
W76-06707 9-13 5C

ADAMS, W. H.
Water Quality in Vicinity of Fenton Hill Site, 1974,
W76-06909 9-14 5B

ADAMS, W. M.
Conditional Expected Tsunami Inundation for Hawaii,
W76-05920 9-12 8B

ADAMS, W. P.
Field Determination of the Densities of Lake Ice Sheets,
W76-12429 9-23 2C

ADAMSKI, J. M.
Reclamation of Acidified Lakes - Middle and Lohi, Sudbury, Ontario,
W76-09108 9-17 5G

Simplified Kjeldahl Nitrogen Determination for Seawater by a Semiautomated Persulfate Digestion Method,
W76-11396 9-21 5A

ADDINK, J. W.
Water Intake Under Center-Pivots From Time-Varying Application Rates,
W76-00031 9-01 3F

ADEDE, A. O.
Settlement of Disputes Arising Under the Law of the Sea Convention,
W76-10590 9-20 6E

System for Exploitation of the 'Common Heritage of Mankind' at the Caracas Conference,
W76-00933 9-02 6A

ADEE, B. H.
Analysis of Floating Breakwater Performance,
W76-10460 9-19 8B

ADEL'SHIN, A. B.
Final Treatment of Petroleum Containing Waste Waters in Highspeed Filters for Pumping Them into Oil-Bearing Beds (Doochistka neft'soderzhashchikh stochnykh vod na sverkhskorostnykh fil'trakh s tsel'yu zakachki ikh v produktivnye plasty),
W76-05492 9-11 5D

ADELMAN, I. R.
Acute Toxicity of Sodium Chloride, Pentachlorophenol, Guthion(R), and Hexavalent Chromium to Fathead Minnows (Pimephales Promelas) and Goldfish (Carassius Auratus),
W76-10335 9-19 5C

Fathead Minnows (Pimephales Promelas) and Goldfish (Carassius Auratus) as Standard Fish in Bioassays and Their Reaction to Potential Reference Toxicants,
W76-10336 9-19 5A

ADELT, H.
Treatment of an Industrial Waste Water by Ozonization (Aufbereitung Eines Industrieabwassers Durch Ozonung),
W76-04036 9-09 5D

ADEM, J.
Numerical-Thermodynamical Prediction of Mean Monthly Ocean Temperatures,
W76-04677 9-10 2L

ADHIKARI, M.
Acidified Alum Sludge and Fly-Ash as Adjunct to Coagulation,
W76-00262 9-01 5F

Studies on Use of Flyash in Conjunction with Alum for Coagulation of Turbid Water,
W76-00232 9-01 5F

ADHLKARI, M.
Sewage Treatment with Activated Fly-Ash and Regenerated Alum Sludge,
W76-09183 9-17 5D

ADIGA, B. B.
Seasonal Feature of Thermal Abatement of Shoreline Discharges at Nuclear Sites,
W76-08862 9-17 5G

ADJANOHOUN, E.
The Impact of Salt Manufacturing on Mangrove Vegetation and the Geomorphology in Lower-Dahomey, (In French),
W76-05113 9-11 4C

ADJOURI, A.
Waste Water Treatment Plant,
W76-08977 9-17 5D

ADKINS, G.
A Study of the Fauna in Dredged Canals of Coastal Louisiana,
W76-07486 9-15 5C

ADLARD, E. R.
European Experience in the Identification of Waterborne Oil,
W76-05143 9-11 5A

ADMINIS, U.
Recycling of Lime-Sulphide Unhairing Liquors - I, Small-Scale Trials,
W76-08179 9-16 5D

ADRAINO, D. C.
Phosphorus Movement in Soils: Theoretical Aspects,
W76-05048 9-11 5B

ADRIAN, D. D.
Design A River Basin Sampling System,
W76-10131 9-19 5A

Transport Phenomena Applied to Sludge Dewatering,
W76-05264 9-11 5D

ADRIANO, D. C.
Nitrate Concentrations in Deep Soil Cores as Related to Soil Profile Characteristics,
W76-00726 9-02 5B

Phosphorus Movement in Soils: Soil-Orthophosphate Reaction Kinetics,
W76-08672 9-16 5B

ADYALKAR, P. G.
Evaluation of the Aquifer Characteristics of the Basaltic Terrain of Maharashtra in India,
W76-02970 9-06 2F

Influence of Hydraulic Trough and Lateral Joints on the Groundwater Potential of the Massive Trap Unit at Tanoria in Shajapur District (MP),
W76-09614 9-18 4B

AFANAS'EVA, E. I.
Content of Some Trace Elements in Macrophytes of the Volga Delta, (In Russian),
W76-13194 9-24 5A

AFANAS'YEV, D. YA.
Formation and Development of Land-Aquatic Vegetation in Shallow Waters of the Dnieper, Pripyat and Teterev Flora Plains (In Ukrainian),
W76-00582 9-02 2I

AFFSPRUNG, H. E.
Solute Properties of Water,
W76-04672 9-10 1B

AFGHAN, B. K.
A Modified Procedure for the Determination of Nitrate in Sediments and Some Natural Waters,
W76-03706 9-08 5A

AFONIGENOVA, A. V.
Quantitative Characteristics of Distribution of Bdellovibrio Bacteriovorus in River Water, (In Russian),
W76-11551 9-21 5A

AGADZHANOV, V.
Wind-Solar Power Installations for Water Raising and Distillation, (In Russian),
W76-11524 9-21 3A

AGARDY, F. J.
Evaluation of Research and Development Needs for the Food Processing Industry,
W76-04754 9-10 5G

AGARWAL, S. K.
Optimal Design of Wastewater Collection Systems,
W76-13165 9-24 5D

AGBIM, N. N.
Land Application of Sewage Sludge, III. Nitrate Accumulation and Wheat Growth Resulting from Addition of Sewage Sludge and Wood Wastes to Soils,
W76-10841 9-20 5E

AGEE, J. L.
A Suggested State Forest Practices Act (Mechanism for Improving Water Quality on Forest Lands),
W76-03587 9-08 5G

AGELEUV, E. A.
Meadow Vegetation and Forage Resources of the Ural River Floodplain, (In Russian)
W76-09098 9-17 4A

AGENA, U.
Basic Performance Parameters for Oxygenation and Liquid Circulation in Rotor-Aerated Liquid Waste Systems,
W76-01092 9-03 5D

AGG, A. R.
The Breakdown of Synthetic Organic Compounds in Biological Processes,
W76-05118 9-11 5D

AGGARWAL, G. C.
A Simple and Rapid Method of Soil Water Determination,
W76-11506 9-21 2D

AGNELLO, R. J.
Prices and Property Rights in the Fisheries,
W76-10586 9-20 6C

AGNEW, R. W.
Biological Treatment of Combined Sewer Overflow at Kenosha, Wisconsin,
W76-00694 9-02 5D

AGNIHOTRI, C. L.
Comparative Study of Showalter's Stability Index and George's Instability Value K for Predicting Local Thunderstorm over Calcutta Airport,
W76-03373 9-07 2B

AGRAWAL, J. P.
Development of Non-Cellulosic RO Systems for Sea Water Desalting,
W76-07318 9-14 3A

AGUIAR, L. W.
The Use of Diatoms and Bacteria as Biological Indicators of Pollution in Streams, (In Portugese),
W76-12318 9-23 5A

AHLERS, J. P.
Relationships of Low, Average and Flood Flows for Streams in the Pacific Northwest,
W76-01507 9-04 2E

AHLGREN, N. H.
A Rotary Apparatus for Purifying the Water by Alternately Contacting the Surface of the Apparatus with Air and Water,
W76-01538 9-04 5F

AHMAD, M. U.
Coal Mining and Its Effect on Water Quality,
W76-06950 9-14 5B

AHMADJIAN, M.
Sampling of Oil Spills and Fingerprinting by Infrared Spectroscopy,
W76-10383 9-19 5B

AHMED, A. K.
PCB'S in the Environment,
W76-10739 9-20 5C

AHMED, A. M.
Sampling Errors in the Quantification of Petroleum in Boston Harbor Water,
W76-10387 9-19 5A

AHMED, J.
Regulation of Nitrate Assimilation by Amino Acids in Chlorella,
W76-13119 9-24 5C

AHMED, S. M.
Electrochemical Properties of the Oxide-Solution Interface in Relation to Flotation,
W76-10629 9-20 5B

AHN, S. H.
Frequency Distributions for Coliform Bacteria in Water,
W76-10650 9-20 5A

AHO, W. A.
Pollution Abatement of Poultry Manure BY Maxi-Mixing Method,
W76-07202 9-14 5D

AHRENS, G. E.
Morrell Pioneers More Efficient Aeration,
W76-08286 9-16 5D

AHRENS, J. P.
Large Wave Tank Tests of Riprap Stability,
W76-06410 9-13 8B

AHRENS, W.
The Solution of the Regionalization Problem by Certain Branch-and-Bound Methods,
W76-12552 9-23 5D

AHUJA, L. R.
Determining Both Water Characteristics and Hydraulic Conductivity of a Soil Core at High Water Contents from a Transient Flow Experiment,
W76-09271 9-17 2G

AHUMADA, M. B.
Social and Economic Development Criteria in Potable Water and Sewerage Systems (Criterios Sociales Y Economicos de Dessarrollo en Los Sistemas de Agua Potable y Alcantarillado),
W76-03808 9-08 5F

AIBA, S.
Food Habit of Vorticellidae Isolated From Activated Sludge,
W76-08309 9-16 5D

AIBA, S.

Simulation of BOD and do Balance with Respect to a Polluted Shallow River (Part I): Mathematical Model,
W76-01777 9-04 5B

Simulation of BOD and DO Balance with Respect To Polluted Shallow-River (Part 2): Simulation Example for Middle Course Tamagawa (Asai odaku kasen ni okeru BOD, DO shushi no simurashon (Dai 2 ho): Tamagawa churyuiki e no tekiyo rei),
W76-03446 9-07 5B

AIDA, K.

On the Nitrogen Behavior in the Process of Ozone Treatment (Ozon shori ni okeru chisso no kyodo ni tsuite),
W76-03221 9-07 5D

On The Ozone Treatment as Pre-Treatment of Activated Sludge (Kassei oden shori no maeshori to shiteno ozon shori),
W76-03215 9-07 5D

AIKEN, D. E.

Temperature Increase Can Cause Hyperecdysonism in American Lobsters (Homarus Americanus) Injected with Ecdysterone,
W76-03046 9-07 5C

AIM, R. B.

Development of a Measurement Method for the Total Activity Rate of Activated Sludge (Contribution a La Mise Au Point D'une Methode De Mesure Du Taux D'Activite Totale Des Boues Activees),
W76-09695 9-18 5D

AIRAN, D.

A Bargaining Approach for Programming Least-Cost Waste Treatment Along a River,
W76-01504 9-04 5D

AIRAN, D. S.

A Bargaining Approach for Programming Least-Cost Waste Treatment Along a River,
W76-01504 9-04 5D

AITKEN, A. P.

Catchment Models for Urban Areas,
W76-04139 9-09 2A

AIZEN, M. S.

Increase of the Effectiveness of Direct Detection of Viruses in Surface Waters by Ultrafiltration Through Soluble Ultrafilters, (In Russian),
W76-07960 9-15 5A

AKELEY, R.

Environmental Monitoring from Spacecraft Data,
W76-08532 9-16 5A

AKERLUND, G.

Chlorination of Sulphate Pulp at High Temperature,
W76-04077 9-09 5D

Effluents from Chlorination and Alkaline Extraction of Pine Sulfate Pulp,
W76-10858 9-20 5B

AKERS, J. M.

Utilisation of Blood,
W76-08166 9-16 3E

AKHINYAN, R. M.

Adaptation of Feed Yeast to a Cellulosic Effluent Medium (in Armenian with Russian summary),
W76-10847 9-20 5D

AKHMEDOV, I. A.

Horizontal Distribution of Zooplankton in the Mingechaur Reservoir, (In Russian),
W76-06780 9-13 2H

AKHMEDSAFIN, U. M.

Classification of Methods of Groundwater Management (Klassificaksiiya metodov upravleniya rezhimom i resursami podzemnykh vod),
W76-05600 9-12 4B

AKHRAROV, F.

Mass Forms of Chironomid Larvae from the Kayrakkum Reservoir, (In Russian),
W76-07418 9-14 2H

Study of the Macrozoobenthos of Flood Plain Lakes of the Vakhsh River, (In Russian),
W76-07414 9-14 2H

AKHUNDOV, F. G.

Transformation of Concentrated and Complex Phosphorus Fertilizers in Modow-Bog Soil with a High Moisture Content, (In Azerbaijani),
W76-09786 9-18 5B

AKIM, G. L.

Reduction of Effluent Volume and Fresh Water Consumption (Snizhenie ob'ema ctochnykh vod i raskhoda svezhej vody),
W76-05727 9-12 3E

AKIMOV, A. M.

Hygienic Evaluation of the Quality of Water Desalinated in Industrial Electrodialysis Installations Under Conditions of Country Settlements, (In Russian),
W76-12910 9-24 5F

Hygienic Problems of the Design, Construction and Operation of Group Water Supply Systems, (In Russian),
W76-02477 9-05 5B

AKIN, E. W.

Apparatus for Conditioning Unlimited Quantities of Finished Waters for Enteric Virus Detection,
W76-12168 9-23 5A

A Virus-In-Water Study of Finished Water From Six Communities,
W76-12866 9-24 5A

AKIRA,

On the Histological Structure and Function of Digestive Organs of the Fed and Starved Larvae of the Yellowtail, Seriola Quinqueradiata, (In Japanese),
W76-09088 9-17 2I

AKLILU, P.

Flood Proofing Decisions Under Uncertainty,
W76-05456 9-11 6F

AKSENOV, V. I.

Stabilizing the Purified Waters Generated by the Etching Shops for their Utilization in the Reverse Cycle (Stabilizatsiya ochishchennykh promyvnykh vod travil'nykh otdeleniy dlya ispol'zovaniya v oborotnom tsikle),
W76-02304 9-05 5D

AKSENOVA, V. B.

Hygienic Problems of the Design, Construction and Operation of Group Water Supply Systems, (In Russian),
W76-02477 9-05 5B

AKSYUK, A. F.

Hygenic Evaluation of Ionic Composition of an Imitation of Desalinated Sea Water, (In Russian)
W76-11529 9-21 5C

AKUNE, M.

Method and Apparatus for Treatment of Liquid Wastes,
W76-02261 9-05 5D

AKZIGITOV, A. SH.

Experience with the Purification of Waste Water in Reservoirs (Opyt ochistki stochnykh vod v rezervuarakh),
W76-07538 9-15 5D

AL-KHALILI, I. J.

Effect of Salinization on Certain Soil Microflora,
W76-06582 9-13 5C

AL-RAWI, A. H.

Investigation of Some Physical Properties of the Soils in the Dalmaj Pilot Project Area,
W76-06579 9-13 2G

A Proposal for Future Utilization of Tharthar Lake Water,
W76-06577 9-13 3C

AL-RAWI, J. Z.

Investigation of Some Physical Properties of the Soils in the Dalmaj Pilot Project Area,
W76-06579 9-13 2G

AL'YANOV, M. E.

Waste Water Purification in Diazole Production (Ochistka stochnykh vod proizvodstva diazoley),
W76-04032 9-09 5D

AL-ZUBAR, A. M.

Effect of Salinization on Certain Soil Microflora,
W76-06582 9-13 5C

ALAGARSAMY, S. R.

Treatment of Dairy Wastes by Mechanised Biological Methods,
W76-05174 9-11 5D

ALAGY, J.

Process for the Treatment of Waste Waters Containing Sulfuric Acid and/or Ammonium Sulfate,
W76-06470 9-13 5D

ALBAIGES-RIERA, J.

Oil Pollution of the Sea and the Petroleum Industry (Vertidos al Mar En La Industria Del Petroleo),
W76-00127 9-01 5G

ALBANO, D.

Pretreatment Provides Constant Effluent Quality,
W76-07513 9-15 5D

ALBERT, J. T.

Board Mill Wastewater Treatment System with Countercurrent Dissolved Air Flotation Thickening and Vacuum Filter Dewatering,
W76-11380 9-21 5D

ALBERTS, E. E.

Sampling and Calculation Methods for Determining Quantities of Nitrogen and Phosphorus in Watershed Runoff,
W76-12372 9-23 5A

Sampling Procedures for Nitrogen and Phosphorus in Runoff,
W76-04681 9-10 5A

ALBERTS, J. J.
The Chemical Speciation of PU-239, PU-240 and CS-137 in Lake Michigan Waters,
W76-05889 9-12 5B

Effect of Municipal Treatment Processes on PU-239, PU-240, and CS-137,
W76-05890 9-12 5F

Mobilization of Mercury from Freshwater Sediments by Humic Acid,
W76-10294 9-19 5C

Plutonium and Americium in Lake Michigan Sediments,
W76-08606 9-16 5C

Sedimentary Pu-239, Pu-240 Phase Distributions in Lake Michigan Sediments,
W76-05891 9-12 5B

Study of the Behaviour of Transuranics and Possible Chemical Homologues in Lake Michigan Water and Biota,
W76-08598 9-16 5C

ALBERTSEN, H. C.
Method and Apparatus for Conveying Sewage,
W76-00844 9-02 5D

ALBIN, R. C.
Cattle Feedlot Pollution Study,
W76-01045 9-03 5E

Feedlot Waste Management Systems,
W76-01024 9-03 5E

Some Physical and Economic Aspects of Water Pollution Control for Cattle Feedlot Runoff,
W76-01034 9-03 5E

ALBRECHT, E.
Fluidized Bed Furnace Having Coarse Particle Discharging Device,
W76-03661 9-08 5E

Fluidized Furnace Construction for Burning Partly Dehydrated Sludge,
W76-08988 9-17 5E

Process for Conditioning Sewage Sludges,
W76-04269 9-09 5D

ALBRECHT, O. W.
Do Regulated Freight Rates Discourage Recycling,
W76-10676 9-20 5G

ALBRECHT, W.
In Regard to the Question of the Determination of Heavy Metals in River Waters with the Aid of Radionuclide X-Ray Fluoresence Analysis, (In German),
W76-06619 9-13 5A

ALBRIGHT, J. L.
A Waste Management System for a 150-Cow Dairy--A 10-Year Case Study,
W76-07174 9-14 5D

ALBRIGHT, L. J.
Chlorinated Hydrocarbon Residues in Fishes from the Lower Fraser River,
W76-10505 9-20 5C

ALBRIGHT, M. A.
Low-Temperature Purification of Fluids,
W76-02827 9-06 5D

ALBRIGO, L. G.
Antitranspirant Sprays Affecting Fruit Size of Early Amber Peaches,
W76-10725 9-20 3F

ALBURGER, J. R.
Open-Loop Water-Washable Inspection Penetrant Process,
W76-09859 9-18 5D

ALCAUSKAS, J. B.
Environmental Surveys of Open-Ocean Dredge Material Disposal Sites,
W76-03644 9-08 5B

ALDAG, W.
Separation of Sludge,
W76-09421 9-18 5D

ALDEZWEENY, A. J.
Measured Chromium Distributions Resulting from Cooling-Tower Drift,
W76-04828 9-10 5B

ALDON, E. F.
Revegetating Devastated Sites in New Mexico with Western Wheatgrass Transplants,
W76-12161 9-23 4C

ALDRICH, D. V.
Growth and Mortality of Two Groups of Oysters, (Crassostrea Virginica Gmelin), Maintained in Cooling Water at an Estuarine Electric Power Generating Station,
W76-12726 9-24 5C

ALDRICH, J. C.
On the Relationship Between Oxygen Consumption and Feeding Level in Decapods,
W76-10072 9-19 5C

ALDRICH, R.
Economic Impact of Recent Environmental Legislation,
W76-01610 9-04 6C

ALDRICH, S. R.
Determining Application Rates of Livestock Wastes to the Land,
W76-03985 9-08 5B

ALDWORTH, G. A.
A New Concept in Small Water Systems,
W76-11253 9-21 5D

ALEKSAKHIN, R. M.
Achievements and Some Urgent Problems of Water Radioecology,
W76-06862 9-14 5B

Use of the Principles and Methods of Radio-Ecology in Solving Some Urgent Problems of Man's Effect on the Environment, (In Russian),
W76-09936 9-18 6G

ALEKSANDROVA, L. P.
Waste-Water Biochemical Purification,
W76-07631 9-15 5D

ALEKSANYAN, O. M.
Cs137 and Sr90 in the Sea of Azov,
W76-06890 9-14 5B

ALEKSEEVA, R. K.
Sulphuric Acid Containing Rinses, Purification,
W76-08506 9-16 5D

ALEKSEYEVA, R. K.
The Dependence of the Completeness of Nonferrous Heavy Metal Sedimentation from Waste Waters on the Properties of the Filtrating Fabric (Zavisimost' polnoty osazheniya tyazhelykh tsvetnykh metallov iz stochnykh vod ot svoystv fil'troval'noy tkani),
W76-02791 9-06 5A

ALEMI, M. H.
Determining the Hydraulic Conductivity of Soil Cores by Centrifugation,
W76-09256 9-17 2G

ALEMU, A.
Effect of Cultural Practices on Grain Yield and Yield Components in Irrigated Wheat,
W76-10176 9-19 3F

ALESINA, I. G.
Control of Coagulant Recovery from Effluent Sediment (Kontrol' regeneratsii koagulyantov iz osadka ctochnykh vod),
W76-05725 9-12 5E

Method of Controlling the Process of Chemical Purification of Effluents (Sposob operataivnogo upravleniya protsessom khimicheskoi ochistki stochnykh vod),
W76-11389 9-21 5D

Process Control Method for the Chemical Purification of Wastewaters (Sposob operativnogo upravleniya protsessom khimicheskoy ochiskki stochnykh vod),
W76-07762 9-15 5D

ALESSI, J.
Water use by Dryland Corn as Affected by Maturity Class and Plant Spacing,
W76-13124 9-24 3F

ALESSIO, G.
First Results on Artificial Reproduction of Bass, Morone Labrax (L.), Reared in Brackish Water, (In Italian),
W76-07298 9-14 2L

ALETI, A.
Analysis of Nonpoint-Source Pollutants in the Missouri Basin Region,
W76-00369 9-01 5B

ALEVRAS, R. A.
Status of Air Bubble Fish Protection System at Indian Point Station on the Hudson River,
W76-08657 9-16 8I

ALEXANDER, E. L.
Soil Conservation Service Standard and Specifications for Pollution Abatement Measures for Confined Livestock or Poultry Feeding Operations,
W76-12367 9-23 5G

ALEXANDER, G. V.
Sodium Relations in Desert Plants: 3. Cation-Anion Relationships in Three Species Which Accumulate High Levels of Cations in Leaves,
W76-02158 9-05 3C

ALEXANDER, H. C.
Bioconcentration of 2,2',4,4'-Tetrachlorobiphenyl in Rainbow Trout as Measured by an Accelerated Test,
W76-03766 9-08 5C

ALEXANDER, J.
An Interdisciplinary Study of the Estuarine and Coastal Oceanography of Block Island Sound and Adjacent New York Coastal Waters,
W76-02050 9-05 7B

ALEXANDER, L. M.
Geography and the Los Debate: Geographical Factors and the Patterns of Alignment,
W76-07826 9-15 6E

ALEXANDER, M.
Transformations of Methylamines and Formation of a Hazardous Product: Dimethylnitrosamine, in Samples of Treated Sewage and Lake Water,
W76-12141 9-22 5B

ALEXANDER, R. C.
Diagnostic Model Study of Mixed-Layer Depths in the Summer North Pacific,
W76-09719 9-18 2L

ALEXANDER, S. M.
Multipurpose Computer for the Honolulu Board of Water Supply,
W76-12589 9-23 4B

System for Regulation of Combined Sewage Flows,
W76-01057 9-03 5D

ALEXANDER, T. M.
Rookery Bay Land Use Studies, Environmental Planning Strategies for the Development of a Mangrove Shoreline, Study No. 7, Policy and Regulatory Dimensions,
W76-05007 9-11 5G

ALEXANDER, V.
Environmental Studies of an Arctic Estuarine System,
W76-02075 9-05 2L

The Nitrogen Balance of Arctic Tundra: Pathways, Rates, and Environmental Implications,
W76-08678 9-16 5B

Nitrogen Kinetics in Aquatic Plants in Arctic Alaska,
W76-04583 9-10 5C

ALEXANDRE, D.
Disinfection of Urban Sewage Sludge (La Desinfection Des Bous Residuaires Urbaines),
W76-09007 9-17 5D

Purification of Urban Wastewaters by Alkaline Physico-Chemical Treatment (L'Epuration Des Eaux Residuaires Urbaines Par Traitement Physico-Chimique Alcalin),
W76-01440 9-03 5D

ALFARO, A.
Rehabilitating an 80-Year Old Sewer System,
W76-05764 9-12 5D

ALFIMOV, N. N.
Characteristics of Boats as Sources of Sea Pollution, (In Russian),
W76-13191 9-24 5B

ALFORD, A. L.
Environmental Applications of Advanced Instrumental Analysis: Assistance Projects, FY 74,
W76-06647 9-13 5A

ALFREY, T. JR.
Mathematical Models Predict Concentration-Time Profiles Resulting from Chemical Spill in a River,
W76-05155 9-11 5B

ALFTHAN, C. J.
Effluents from Chlorination and Alkaline Extraction of Pine Sulfate Pulp,
W76-10858 9-20 5B

ALGAZI, V. R.
Multispectral Combination and Display of ERTS-1 Data,
W76-02054 9-05 7C

ALHADEFF, E.
UV-Ozone Oxidation/Sterilization Process,
W76-00243 9-01 5D

ALI, M. B.
Socioeconomic Analysis of a Major Rehabilitation of Irrigation and Water Management Systems in Eastern Idaho,
W76-06161 9-13 3F

ALI RASHID, N. M.
A Proposal for Future Utilization of Tharthar Lake Water,
W76-06577 9-13 3C

ALIEV, D. D.
Role of Far Eastern Herbivorous Fish in Ecosystems of Natural Water Bodies Used for Acclimatization, (In Russian),
W76-08666 9-16 5C

ALIEV, S. A.
Correlated Changes of Enzymatic Activity in Soils of Vertical Zones, (In Russian),
W76-00044 9-01 2G

ALIFANOVA, T. I.
Snow-Regulating Role of the Forest Belts in the Steppes of the Krasnoyarsk Krai, (In Russian),
W76-08383 9-16 2C

ALKIRE, B. D.
Using Paper Mill Sludge as Concrete Admixture,
W76-11399 9-21 5E

ALLAN, F. J.
Computer Aided Planning of a Regional Disposal System for Municipal Sludge,
W76-11647 9-22 5D

ALLAN, J. D.
Competition and the Relative Abundances of Two Cladocerans,
W76-10125 9-19 2I

The Distributional Ecology and Diversity of Benthic Insects in Cement Creek, Colorado,
W76-06587 9-13 2I

ALLAN, R. J.
The Formation and Detection of Metal Dispersion Halos in Organic Lake Sediments,
W76-09129 9-17 2J

Metal Contents of Lake Sediment Cores from Established Mining Areas: An Interface of Exploration and Environmental Geochemistry,
W76-04291 9-09 5B

ALLANACH, W. C. JR.
Soil Stabilization with Powdered and Coarse Quicklime,
W76-08422 9-16 8D

ALLANSON, J. T.
Development of a Continuous Inclined Sand Bed Filter,
W76-09668 9-18 5D

ALLARDI, J.
Effects of a Thermal Discharge into a River on the Movement of Fish Populations, (Incidences D'un Rejet Thermique En Milieu Fluvial Sur Les Mouvements Des Populations Ichtyologiques),
W76-08871 9-17 5C

ALLDREDGE, A. L.
Underwater Observations of Gelatinous Zooplankton: Sampling Problems, Feeding Biology, Land Behavior,
W76-09598 9-18 5C

ALLEE, D. J.
Basin Governance,
W76-10130 9-19 6E

Government Agency Efforts in Quality of Life Impacts,
W76-05356 9-11 6B

ALLEN, A. A.
Development of a Boat and Helicopter Deployable Oil Slick Sampler,
W76-09892 9-18 5A

ALLEN, D.
Sala-HGMS Magnetic Filters for the Treatment of Combined Sewer Overflow,
W76-11265 9-21 5D

ALLEN, G. H.
Report on Pilot Aquaculture System Using Domestic Wastewaters for Rearing Pacific Salmon Smolts,
W76-03553 9-08 5C

ALLEN, H. E.
Floods in Lombard Quadrangle, Illinois,
W76-01183 9-03 2E

Floods in Palatine Quadrangle, Illinois,
W76-07116 9-14 7C

ALLEN, H. L.
Public Law 92-500-- Water Quality Analysis and Environmental Impact Assessment, Technical Report (Volume I),
W76-11806 9-22 5G

ALLEN, H. S.
New Plant Solves Seasonal Problem,
W76-03716 9-08 5D

ALLEN, J. B.
A Characterization of the Effluent from Commercial Catfish Ponds,
W76-01041 9-03 5A

Transportation of Solids by Water in Pipelines,
W76-10806 9-20 8B

ALLEN, J. L.
Accumulation and Loss of Residues of 3-Trifluoromethyl-4-Nitrophenol (TFM) in Fish Muscle Tissue: Laboratory Studies,
W76-08065 9-15 5C

Public Law 92-500--Water Quality Analysis and Environmental Impact Assessment, Technical Report, Volume II,
W76-11807 9-22 5G

Renal Excretion in Coho Salmon (Oncorhynchus Kisutch) After Acute Exposure to 3-Trifluoromethyl-4-Nitro-Phenol,
W76-03033 9-07 5C

Residues of 3-Trifluoromethyl-4-Nitrophenol (TFM) in a Stream Ecosystem After Treatment for Control of Sea Lampreys,
W76-08066 9-15 5C

Urinary Excretion of Quinaldine by Channel Catfish,
W76-00439 9-01 5C

ALLEN, J. S.
Modal Decomposition of the Velocity Field Near the Oregon Coast,
W76-04974 9-10 2L

Some Aspects of the Forced Response of Stratified Coastal Regions,
W76-06932 9-14 2L

Some Three-Dimensional Characteristics of Low-Frequency Current Fluctuations Near the Oregon Coast,
W76-08336 9-16 2L

ALLEN, L. G.
Abundance, Diversity and Seasonality of Fishes in Colorado Lagoon, Alamitos Bay, California,
W76-07482 9-15 5C

ALLEN, R.
Modifications Improve Chlorine Contact Chamber Performance, Part I,
W76-03231 9-07 5F

Modifications Improve Chlorine Contact Chamber Performance, Part II,
W76-07056 9-14 5D

ALLEN, R. H. JR.
A Photographic Technique for Monitoring Erosion on Strip Mined Lands,
W76-02278 9-05 5A

ALLEN, R. M.
Occurrence of Phytophthora Species and Other Potential Plant Pathogens in Recycled Irrigation Water,
W76-06010 9-12 5C

ALLEN, R. R.
No-Till Seeding of Irrigated Sorghum Double Cropped After Wheat,
W76-08756 9-17 3F

ALLEN, S. E.
Accretion and Dilution of Nutrients in Young Corn, as Affected by Yield Response to Nitrogen, Phosphorus, and Potassium,
W76-00823 9-02 3C

Yield-Nutrient Absorption Relationships as Affected by Environmental Growth Factors,
W76-10184 9-19 2I

ALLEN, W. B.
Water Resources of the Huron River Basin, Southeastern Michigan,
W76-05429 9-11 7C

Water Resources of the River Raisin Basin, Southeastern Michigan,
W76-07118 9-14 7C

ALLEY, E. G.
The Effect of Mirex and Carbofuran on Estuarine Microorganisms,
W76-01864 9-04 5B

ALLEY, E. R.
Plant Protects A Recreational Lake,
W76-05770 9-12 5D

ALLEY, W.
Impact of Argo Tunnel Acid Mine Drainage, Clear Creek County, Colorado,
W76-06943 9-14 5G

ALLISON, B. E.
Wind Erosion: The Protective Role of Simulated Standing Stubble,
W76-09247 9-17 4D

Wind Erosion: Uniformly Spacing Nonerodible Elements Eliminates Effects of Wind Direction Variability,
W76-03127 9-07 4D

ALLISON, G. B.
The Use of Environmental Tritium to Estimate Recharge to a South-Australian Aquifer,
W76-00896 9-02 2F

ALLISON, G. C.
Sample Tracking Data Management System,
W76-11611 9-21 7C

ALLISON, L. J.
Meteorological Interpretations of the Images from the Nimbus 5 Electrically Scanned Microwave Radiometer,
W76-07071 9-14 2B

ALLMAN, D. W.
The Occurrence and Development of Guest Sink, Hernando County, Florida,
W76-00296 9-01 4B

ALLMARAS, R. R.
Soybean and Corn Rooting in Southwestern Minnesota: I. Water-Uptake Sink,
W76-02403 9-05 3F

Soybean and Corn Rooting in Southwestern Minnesota: II. Root Distributions and Related Water Inflow,
W76-01528 9-04 2D

ALLRED, R. B.
The Handling and Treating of Water-Based Drilling Muds,
W76-08912 9-17 5D

ALLUM, K. H.
An Economic Study of the Unox and Conventional Aeration Systems,
W76-06288 9-13 5D

ALMAZAN, J. A.
Objective Analysis of IFYGL Surface Meteorological Data,
W76-11435 9-21 2H

ALMEIDA, S. P.
Water Pollution Monitoring Using Matched Spatial Filters,
W76-09194 9-17 5A

ALMES, R. G.
Engineering, Environmental and Economic Planning for Coal Refuse Disposal,
W76-06947 9-14 5G

ALMOND, M. A.
Legal Aspects of Phosphate Mining in North Carolina,
W76-00984 9-02 6G

ALONSO, C. V.
The Influence of Suspended Sediment on the Reaeration of Uniform Streams,
W76-02934 9-06 5G

Steady Laminar Flow in a Stationary Tank with a Spinning Bottom,
W76-11062 9-20 8B

Turbulent Characteristics of Drag-Reducing Flows,
W76-12826 9-24 8B

ALPERIN, I. M.
The Role of Interstate Compacts in Fisheries Management,
W76-13107 9-24 6E

ALPERT, J. E.
Economic Evaluation of the Promulgated Interim Primary Drinking Water Regulations,
W76-12821 9-24 5G

Economic Evaluation of the Proposed Interim Primary Drinking Water Regulations,
W76-12822 9-24 5G

ALPHEUS, A.
The Application of Step-Drawdown Pumping Tests for Determining Well Losses in Consolidated Rock Aquifers,
W76-02747 9-06 4B

ALSPAUGH, T. A.
Treating Dye Wastewater,
W76-01629 9-04 5D

ALT, C.
Removal of Water from Sludges with Filter Presses (Schlammentwaesserung Mit Pressfiltern),
W76-08998 9-17 5D

ALTER, H.
Specifications for Materials Recovered From Municipal Refuse,
W76-00684 9-02 5D

ALTHEN, C.
Fish and Wildlife Implications of Upper Missouri Basin Water Allocation, A Research Assessment,
W76-10826 9-20 4C

ALTMAN, J. J. JR.
The Swale,
W76-12038 9-22 6E

ALTMANN, H.
Distribution of Selected Metals in Tissue Samples of Carp, Cyprinus Carpio,
W76-10082 9-19 5C

ALUSHIN, M. S.
Federal-State Relations in Water Quality Planning,
W76-01003 9-03 5G

ALVAREZ FERNANDEZ, D.
Application of Systems Analysis Models to the Problem of Conjunctive Use of Surface and Groundwater in the Vega of Granada,
W76-00818 9-02 4B

ALVAREZ, J. M.
The Role of Desalting and Brackish Water Resources in the Arid Regions of the Americas,
W76-13133 9-24 3A

ALVERSON, J. E.
Wastewater Irrigation and Forests,
W76-04634 9-10 5D

ALY, A. I. M.
Nitrogen-15 Variations in Fertilizer Nitrogen,
W76-00722 9-02 5A

AMANO, K.
Water Quality Determination Apparatus,
W76-02596 9-06 5A

AMANOV, A. A.
Formation of the Fish Fauna of the Chimkurgan Reservoir in the Basin of the Kashkadar'ya River (Uzbek SSR, USSR), (In Russian),
W76-07399 9-14 2H

AMAR, A. C.
Ground-Water Recharge Simulation,
W76-00555 9-02 2F

Ground-Water Recharge Simulation,
W76-03801 9-08 4B

AMAVIS, R.
Quality Control and Harmonization Programmes for the Assessment of Effects and the Measurement of Environmental Pollution in the European Communities,
W76-11613 9-21 5G

AMBACH, W.
On the Water Channels of the Internal Drainage System of the Hintereisferner, Otztal Alps, Austria,
W76-07064 9-14 2C

AMBAWANE, G. B.
Treatment and Disposal of Wastewater from Onion Dehydration Factory at Satpur, Nasik,
W76-07533 9-15 5D

AMBE, M.
Thiuram Polysulfide Heavy Metal Remover,
W76-10466 9-19 5D

AMBE, Y.
Chemical Composition of Organic Compounds Present in Water of the Tamagawa River, (In Japanese),
W76-00606 9-02 5A

AMBERG, H. R.
Environmental and Social Factors (in the Paper Industry),
W76-10861 9-20 5G

Status of Water Pollution Control in the Soviet Union,
W76-05714 9-12 5G

The Status of Water Pollution Control in the Soviet Union, (First Part),
W76-05483 9-11 5D

The Status of Water Pollution Control in the Soviet Union, (Second Part),
W76-05484 9-11 5D

AMBUEHL, H.
Effect of Treated Sewage Effluents on Phytoplankton in Lakes, (In German),
W76-11579 9-21 5C

The Technique of Removing Large Undisturbed Samples of Lake Sediment: An Improved Bore Plumb, (In German),
W76-06776 9-13 2J

AMBUHL, H.
Discharge of Treated Waste Water in Lakes (Die Einleitung Von Gereinigtem Abwasser in Seen),
W76-09216 9-17 5B

AMERASINGHE, S.
Demonstration of a Methodology for Dredged Material Reclamation and Drainage,
W76-02945 9-06 5E

AMERMAN, C. R.
Soil Water,
W76-01111 9-03 2G

Soil Water Modeling I: A Generalized Simulator of Steady, Two-Dimensional Flow,
W76-10933 9-20 2G

AMES, R. K.
Industrial and Municipal Sludge Dewatering, The Boeing 'Best' System,
W76-03816 9-08 5D

Method of Dewatering Material Containing Solid Matter and Bound and Unbound Water,
W76-04611 9-10 5D

AMINUL, A. K. M.
An Experiment on the Feeding of Fry of Catfish Heteropneustes Fossilis,
W76-08575 9-16 2I

AMIR, I.
A Combined Model for Operating Irrigated Agricultural Systems Under Uncertainties,
W76-09634 9-18 3F

AMOROS, C.
Changes in the Population of Cladocera and Copepoda in Three Fishponds of the Dombes, (In French),
W76-09995 9-18 2I

AMOS, A. F.
The Environmental Impact of Deep-Sea Mining,
W76-10602 9-20 5G

AMOUROUX, J. M.
A Study of the Infralittoral Population of the Coast of Roussillon: III. Spatial and Seasonal Variations, (In French),
W76-08898 9-17 2L

AMY, G.
Water Quality Management Planning for Urban Runoff,
W76-02758 9-06 5D

AMY, L.
Features of Various Offshore Structures,
W76-09311 9-17 8A

ANAN'EVA, T. A.
Waste Water Purification in Diazole Production (Ochistka stochnykh vod proizvodstva diazoley),
W76-04032 9-09 5D

ANAS, R. E.
DDT Plus PCB's in Blubber of Harbor Seals,
W76-11698 9-22 5A

ANCELLIN, J.
Influence De La Temperature Sur La Contamination D'Especes Marines Par Le Fer-59, (Influence of Temperature on the Contamination of Marine Species by Iron-59),
W76-09494 9-18 5C

ANDEEN, B. R.
Improvement of the Environmental and Economic Characteristics of Cooling Towers: Part I of II. Heat Rejection from Horizontal Tubes to Shallow Fluidized Beds,
W76-02381 9-05 5G

ANDELMAN, J. B.
The Effect of Water Treatment and Distribution on Trace Element Concentrations,
W76-00120 9-01 5F

ANDERL, B.
Accuracy of Reservoir Inflow Forecasts Based on Radar Rainfall Measurements,
W76-09574 9-18 2B

ANDERSEN, A. T.
Mercury in Some Marine Organisms from the Oslofjord,
W76-07982 9-15 5C

ANDERSEN, F. L.
Computerized Reduction of Meteorologic Measurements from Irrigated and Nonirrigated Plots in Central Utah,
W76-02500 9-05 7C

ANDERSEN, J. C.
The Demand for Agricultural Water in Utah,
W76-02383 9-05 6D

The Economic Efficiency of Inter-Basin Agricultural Water Transfer in Utah: A Mathematical Programming Approach,
W76-01341 9-03 4A

Regional Development: An Econometric Study of the Role of Water Development in Effectuating Population and Income Changes,
W76-03137 9-07 6B

ANDERSEN, J. L.
Comparative Primary Productivity of Two Flood Control Reservoirs in the Salt Valley Watershed of Eastern Nebraska,
W76-07254 9-14 5C

ANDERSEN, J. M.
An Ignition Method for Determination of Total Phosphorus in Lake Sediments,
W76-08346 9-16 5A

Nitrogen and Phosphorus Budgets and the Role of Sediments in Six Shallow Danish Lakes,
W76-04588 9-10 5C

ANDERSEN, J. R.
Agricultural Runoff Pollutes Surface Waters, Part I,
W76-02694 9-06 5B

Agricultural Runoff Pollutes Surface Waters, Part I,
W76-03719 9-08 5A

Bacteriological Quality of Surface Runoff From Agricultural Land, Part II,
W76-02695 9-06 5B

ANDERSLAND, O. B.
An Experimental High-Ash Paper Mill Sludge Landfill,
W76-11379 9-21 5E

ANDERSON, A.
Menabrea's Note on Waterhammer: 1858,
W76-06388 9-13 8B

ANDERSON, A. G.
Modeling of Meandering and Braiding in Rivers,
W76-09974 9-18 2J

Scour at Bridge Waterways--A Review,
W76-02684 9-06 8B

ANDERSON, A. T.
ERTS-1 Flood Hazard Studies in the Mississippi River Basin,
W76-02033 9-05 7B

ANDERSON, A. W.
Factors Affecting Slime Accumulation in Fiberboard Mill Process Water,
W76-01689 9-04 5D

ANDERSON, B. J.
Supersaturation and Time Dependence of Ice Nucleation from the Vapor on Single Crystal Substrates,
W76-10695 9-20 3B

ANDERSON, C. A.
A Modified Raw-Wool Scouring System for Easier Effluent Treatment,
W76-08717 9-16 5D

ANDERSON, C. B.
The Effluent-Free Bleached Kraft Pulp Mill. Part VI. Substantial Substitution of Chlorine Dioxide for Chlorine in the First Stage of Bleaching,
W76-11382 9-21 3E

ANDERSON, C. D.
A Comparison of the Effects of Temperature on Wound Healing in a Tropical and a Temperate Teleost,
W76-07484 9-15 5C

ANDERSON, C. T.
Carbon Contents of Surface and Underground Waters in South-Central Minnesota,
W76-12202 9-23 5A

ANDERSON, D.
An Investigation of Antibiotic and Drug Residues in Fish,
W76-09124 9-17 5C

ANDERSON, D. J.
Computer Halts Flooding Complaints,
W76-12905 9-24 5D

ANDERSON, D. M.
Applications of ERTS-1 Imagery to Terrestrial and Marine Environmental Analyses in Alaska,
W76-02049 9-05 7B

Arctic and Subarctic Environmental Analyses Utilizing ERTS-1 Imagery,
W76-08510 9-16 2C

ANDERSON, D. R.
Transient Water Quality Modeling in Streams,
W76-06433 9-13 5B

Transient Water Quality Modeling in Streams,
W76-08730 9-16 5B

Water Quality Modeling of Deep Reservoirs,
W76-04552 9-10 5B

ANDERSON, E.
Trace Analysis of Organic Volatiles in Water by Gas Chromatography-Mass Spectrometry with Glass Capillary Columns,
W76-03708 9-08 5A

ANDERSON, E. A.
A Point Energy and Mass Balance Model of a Snow Cover,
W76-11864 9-22 2C

ANDERSON, E. D.
How to Dispose of Manure and Stay out of Court,
W76-04435 9-09 5E

ANDERSON, E. H.
Bloomington Goes Solid-State,
W76-06998 9-14 5F

ANDERSON, E. R.
Effect of Flooding on the Regeneration of Six Tropical Grasses after Defoliation,
W76-07696 9-15 4A

ANDERSON, F. E.
The Short Term Variation in Suspended Sediment Concentration Caused by the Passage of a Boat Wave Over a Tidal Flat Environment,
W76-01827 9-04 2L

ANDERSON, F. R.
The Future of Environmental Defense,
W76-01961 9-04 6G

ANDERSON, G. S.
Water-Resources Reconnaissance of St. George Island, Pribilof Islands, Alaska.
W76-07601 9-15 4A

ANDERSON, G. W.
Impression Tool Evaluates Perforation Effectiveness,
W76-11918 9-22 8G

ANDERSON, H. W.
The Hydrologic Potential of Unit Areas: A Basis for Managing Water Resources,
W76-05620 9-12 4D

Major Floods, Poor Land Use Delay Return of Sedimentation to Normal Rates,
W76-00989 9-02 4D

Major Floods, Poor Land Use Delay Return of Sedimentation to Normal Rates,
W76-12157 9-23 4D

Relation of Reservoir Sedimentation to Catchment Attributes, Landslide Potential, Geologic Faults, and Predicted Density,
W76-02288 9-05 2J

Relative Contribution of Sediment from Source Areas and Transport Processes,
W76-02290 9-05 2J

Reservoir Sedimentation Associated with Catchment Attributes, Landslide Potential, Geologic Faults, and Soil Characteristics,
W76-05617 9-12 4D

Sedimentation and Turbidity Hazards in Wildlands,
W76-02289 9-05 2J

ANDERSON, H. W. JR.
Water Resources of the Cedar River Watershed, Southeastern Minnesota,
W76-07117 9-14 7C

ANDERSON, J. C.
Development of Regional Supply Functions and a Least-Cost Model for Allocating Water Resources in Utah: A Parametric Linear Programming Approach,
W76-02876 9-06 6A

ANDERSON, J. J.
Remote Control of Combined Sewer Overflows,
W76-11630 9-22 5D

ANDERSON, J. R.
Intercepting Trench at a Landfill Renders Leachate into Drinkable Source of Water,
W76-01627 9-04 5G

A Land Use and Land Cover Classification System for use with Remote Sensor Data,
W76-11679 9-22 4A

ANDERSON, J. W.
Accumulation, Release, and Distribution of Benzo (A) Pyrene -C14 in the Clam, Rangia Cuneata,
W76-00137 9-01 5C

Controlled Food-Chain Transfer of Dieldrin Residues From Phytoplankters to Clams,
W76-00867 9-02 5B

An Experimental Oil Spill: The Distribution of Aromatic Hydrocarbons in the Water, Sediment, and Animal Tissues Within a Shrimp Pond,
W76-00149 9-01 5C

Sublethal Effects of Oil, Heavy Metals and PCB's on Marine Organisms,
W76-00324 9-01 5C

Survival and Chloride Ion Regulation of the Porcelain Crab Petrolisthes Armatus Exposed to Mercury,
W76-02328 9-05 5C

Toxicity of Polychlorinated Biphenyls (Aroclor 1254) to Adult, Juvenile and Larval Stages of the Shrimp Palaemonetes Pugio,
W76-10075 9-19 5C

An Ultraviolet Spectrophotometric Method for the Determination of Naphthalene and Alkylnaphthalenes in the Tissues of Oil Contaminated Marine Animals,
W76-01933 9-04 5A

Uptake and Depuration of Specific Hydrocarbons from Oil by the Bivalves Rangia Cuneata and Crassostrea Virginica,
W76-11024 9-20 5C

ANDERSON, JAY E.
Engineering and Ecological Evaluation of Antitranspirants for Increasing Runoff in Colorado Watersheds,
W76-02368 9-05 3B

ANDERSON, L. G.
Deepsea Mineral Utilization, Regulation and Economic Efficiency,
W76-03275 9-07 6C

A New Color Removal Process: A Field Report,
W76-04223 9-09 5D

ANDERSON, M. A.
Chemical Forms of Arsenic in Water Supplies and Their Removal,
W76-00109 9-01 5F

ANDERSON, M. G.
Peak Flow Inter-Arrival Times,
W76-11859 9-22 2A

Some General Precipitation-River Flow Relationships in England and Wales,
W76-07088 9-14 2A

ANDERSON, M. H.
The Demand for Agricultural Water in Utah,
W76-02383 9-05 6D

The Efficient Use of Utah's Irrigation Water: Increased Transferability of Water Rights,
W76-06487 9-13 3F

Periphytic and Planktonic Algae of the Lower Fraser River in Relation to Water Quality Conditions,
W76-10504 9-20 5C

ANDERSON, M. W.
Hydrologic Study of a Small Suburban Watershed,
W76-04510 9-10 4C

ANDERSON, N. H.
Use of Emergence Data for Estimating Annual Production of Aquatic Insects,
W76-12597 9-23 2I

ANDERSON, P. W.
Effects of Land use and Retention Practices on Sediment Yields in the Stony Brook Basin, New Jersey,
W76-05418 9-11 4C

EPA's Position on Ocean Disposal in the New York Bight,
W76-05084 9-11 5E

ANDERSON, R. D.
Petroleum Hydrocarbons and Oyster Resources of Galveston Bay, Texas,
W76-00143 9-01 5C

ANDERSON, R. D.

A Study of the Marine Resources of Hingham Bay,
W76-08039 9-15 5C

ANDERSON, R. J.
Residual Charges and Profits,
W76-03267 9-07 5G

ANDERSON, R. R.
Applications of ERTS Data to Coastal Wetland Ecology with Special Reference to Plant Community Mapping and Typing and Impact of Man,
W76-02036 9-05 7B

ERTS-1 Investigation of Wetlands Ecology,
W76-08319 9-16 2L

ANDERSON, R. U.
Rain Dance Doesn't Work Here Anymore, or Water Use and Citizen Attitudes Towards Water Use in Albuquerque, New Mexico,
W76-05016 9-11 6B

ANDERSON, S. J.
Summary of Entrainment Research at the Millstone Point Nuclear Power Station, 1970 to 1972,
W76-08632 9-16 5C

ANDERSON, W.
Hydrology of the Three Sinkhole Basins in Southwestern Seminole County, Florida,
W76-08572 9-16 4A

ANDERSON, W. M.
Metallic Recovery System,
W76-08493 9-16 5D

ANDERSON, W. R. JR.
Analysis of Pulp and Paper Mill Waste Waters by High-Resolution Ion-Exchange Chromatography,
W76-05709 9-12 5A

ANDERSSON, I.
The Environmental Information System (EIS) in Sweden and Monitoring of the Environment,
W76-11241 9-21 5A

ANDO, H.
The Fish Fauna in Kangawa Water System, (In Japanese),
W76-07934 9-15 5C

ANDO, M.
Hygienic Chemical Studies on Water Quality of the Moat of Imperial Palace: I. Relationship Between Seasonal Water Quality and Microflora in the Moat. (In Japanese),
W76-07426 9-14 5C

Hygienic Chemical Studies on Water Quality of the Moat of Imperial Palace: II. Relationship Between Water Quality and Horizontal Insolation Intensity, (In Japanese),
W76-07427 9-14 5C

ANDREEV, N. G.
Dependence of Pasture Grass Yield on Soil Moisture Level, (In Russian),
W76-09930 9-18 4A

ANDREI, S.
The Effect of Certain Synthetic Macromolecular Substances on the Physico-Chemical Properties of Soil and on the Fertilizer Utilization Coefficient, (In French),
W76-08981 9-17 2G

ANDREJANOV, V. G.
Meteorological and Hydrological Data Required in Planning the Development of Water Resources (Planning and Design Level),
W76-03103 9-07 4A

ANDREN, A. W.
Observations on the Association Between Mercury and Organic Matter Dissolved in Natural Waters,
W76-01757 9-04 5A

ANDREU-VILLEGAS, R.
Optimizing Flocculator Power Input,
W76-12525 9-23 5D

ANDREW, H.
EPA's Role in the Animal Waste Problem: Panel Discussion,
W76-11045 9-20 5G

ANDREW, R. W.
Comparative Toxicity of Sewage-Effluent Disinfection to Freshwater Aquatic Life,
W76-10898 9-20 5C

ANDREWS, J. D.
Epizootiology of Minchinia Nelsoni in Susceptible Wild Oysters in Virginia, 1959 To 1971,
W76-06035 9-12 5C

ANDREWS, J. F.
A Computer Based Operational Strategy for the Joint Treatment of Municipal and Industrial Wastewaters,
W76-11659 9-22 5D

Dynamics of Nitrification in the Activated Sludge Process,
W76-03672 9-08 5D

Dynamics of Nitrification in the Activated Sludge Process,
W76-03797 9-08 5B

ANDREWS, J. T.
Collapse of the Hudson Bay Ice Center and Glacio-Isostatic Rebound,
W76-05669 9-12 2C

Continental Ice Sheets: Conditions for Growth,
W76-04100 9-09 2C

ANDREWS, J. W.
The Influence of Various Culture Conditions on the Oxygen Consumption of Channel Catfish,
W76-07485 9-15 5C

ANDREWS, R. K.
Floating Structural Plastic Truss System Protects Waste Lagoon Lining,
W76-10007 9-19 5G

ANDREWS, W. H.
Basin Governance,
W76-10130 9-19 6E

Social Effects of Changes in Uses of Bear Lake, An Interstate Body of Water,
W76-02634 9-06 6B

Social Impacts and Methodological Perspectives from a Post Audit Analysis of Water Resource Development,
W76-05360 9-11 6B

ANDREYASHKIN, YU. G.
Self-Regulation of the Population and Biomass of Schools of Yearling Carp, (In Russian),
W76-08832 9-17 2I

Structure of the Plankton Community of Fish-Rearing Ponds of the Southern Urals, (In Russian),
W76-01700 9-04 8I

ANGELAKOS, D.
Measurement of Snowpack Wetness,
W76-12162 9-23 2C

ANGELL, C. A.
Thermodynamic Properties of Bulk and Occluded Super-Cooled Water and Ionic Solutions,
W76-06155 9-13 1A

ANGELL, C. L.
Epizootiology of Tumors in a Population of Juvenile English Sole (Parophrys Vetulus) From Puget Sound, Washington,
W76-03657 9-08 5C

Growth and Mortality of the Cultivated Mangrove Oyster (Crassostrea Rhizophorae), (In French),
W76-02439 9-05 5C

ANGER, K.
On the Influence of Sewage Pollution on Inshore Benthic Communities in the South of Kiel Bay. Part I. Qualitative Studies on Indicator Species and Communities,
W76-01944 9-04 5C

ANGERILLI, P. D. C.
Influences of Some Freshwater Plants on the Development and Survival of Mosquito Larvae in British Columbia,
W76-06048 9-12 5G

ANGEVINE, P. A.
Fluid Bed Incineration of Wastes Containing Alkali Metal Chlorides,
W76-01680 9-04 5D

ANGINO, E. E.
Trace Element, Mineralogy, and Size Distribution of Suspended Material Samples from Selected Rivers in Eastern Kansas,
W76-05606 9-12 5B

ANIELAK, P.
Use of Ion Exchangers and Synthetic Sorbents for Removal of Color from Kraft Process effluents (Proby zastosowania jonitow i sorbentow syntetycznych do usuwania barwy ze sciekow posiarczanosych),
W76-05698 9-12 5D

ANIKIEV, V. V.
Effect of Excess Soil Moisture on the Content of Phosphorus Compounds in Barley, (In Russian),
W76-09913 9-18 3F

ANIS, A. A.
Skew Inputs and the Hurst Effect,
W76-00317 9-01 4A

ANISIMOV, A. V.
Study of Self-Diffusion of Water and its Activation Energy in Cells of Different Plant Tissues, (In Russian),
W76-08429 9-16 2I

ANISIMOVA, Z. A.
Hygenic Evaluation of Ionic Composition of an Imitation of Desalinated Sea Water, (In Russian)
W76-11529 9-21 5C

ANNA, L. O.
Map Showing Availability of Hydrologic Data Published as of 1974 by the U.S. Environmental Data Service and by the U.S. Geological Survey and Cooperating Agencies, Colorado Springs-Castle Rock Area, Front Range Urban Corridor, Colorado,
W76-00669 9-02 7C

ANRAKU, M.
Warm Water Effluents and Plankton, (In Japanese),
W76-12740 9-24 5C

ANTHONISEN, A. C.
Inhibition of Nitrification by Ammonia and Nitrous Acid,
W76-11197 9-21 5D

Oxygen Transfer at High Solids Concentrations,
W76-03236 9-07 5D

ANTHONY, D. S.
The Role of the Aquatic Exchange of Carbon Dioxide in the Ecology of the Water Hyacinth (Eichhornia Crassipes),
W76-11921 9-22 2I

ANTIPCHUK, A. F.
Quantity of Heterotrophic Bacteria on Some Higher Plants in Carp Ponds, (In Russian),
W76-12271 9-23 5B

ANTOINE, L.
Preparation of Surfaces For Galvanization. Treatment of the Effluents (Preparation de Surfaces Avant Galvanisation. Traitement des Effluents),
W76-04184 9-09 5D

ANTONACOPOULOS, N.
The Influence of Water Quality on Accumulation of Heavy Metals in Aquatic Organisms,
W76-08456 9-16 5C

ANTONELLI, J.
Updating the Navy Environmental Protection Data Base to Incorporate Oil Spill Clean-Up Performance,
W76-08320 9-16 5B

ANTONENKO, T. M.
Concentration of Cesium-137 in Aquatic Organisms, Water and Bottom Deposits of Water Bodies with a Different Mineral Compositions of the Water, (In Russian),
W76-09410 9-18 5C

ANTONIONI, MARY ELLEN
Antimycin: Beyond Teleocide,
W76-05662 9-12 5C

ANTONOVA, V. I.
Hygienic Substantiation of the Maximum Permissible Concentration of Hydrogen Peroxide in Surface Waters, (In Russian),
W76-12315 9-23 5A

ANTONSON, C. R.
Development of Non-Cellulosic RO Systems for Sea Water Desalting,
W76-07318 9-14 3A

ANTONUCCI, D. C.
Environmental Effects of Advanced Wastewater Treatment at South Lake Tahoe,
W76-03828 9-08 5D

ANTROPOV, N. P.
Chromium Removal from Wastewater by Electrocoagulation (Elektrokoagulyatsionnaya ochistka stochnykh vod ot khroma),
W76-07540 9-15 5D

AOKI, H.
DDC Process of Saikawa Water Treatment Plant in Kanazawa City,
W76-03339 9-07 5F

AOKI, T.
Apparatus for Dissolving Large Quantities of Oxygen in Water,
W76-00570 9-02 5D

AONUMA, K.
The Fish Fauna in Kangawa Water System, (In Japanese),
W76-07934 9-15 5C

AOYAGI, Y.
Experimental Study on Direct Coagulation Filtration Method. (Chokusetsu gyoshu roka-ho ni kansuru jikken kekka),
W76-00217 9-01 5F

APEL, J. R.
Ocean Internal Waves Off the North American and African Coasts from ERTS-1,
W76-02040 9-05 7B

APLAN, F. F.
Ion and Precipitate Flotation of Metal Ions from Solution,
W76-10630 9-20 5D

Kinetics of Limestone Dissolution by Acid Waste Waters,
W76-01643 9-04 5D

APMANN, R. P.
The Influence of Urbanization on Stream Channel Behavior,
W76-09744 9-18 4C

APOLLONOVA, I. I.
New Anticorrosion Coating, 4P, For Drinking Water Tanks on Ships, (In Russian),
W76-02357 9-05 5G

APOSTOL, S.
The Action of Some Pollutants on the Growth of Daphnia Magna Strauss, (In French),
W76-09937 9-18 5C

APPAN, S. G.
Construction and Stabilization of Coastal Foredunes with Vegetation: Padre Island, Texas,
W76-11752 9-22 2L

APPEL, C. A.
A Note on Computing Finite Difference Interblock Transmissivities,
W76-12292 9-23 2F

APPEL, D. W.
Aerobic Lagoon Waste Treatment and Method,
W76-12499 9-23 5D

APPEL, E.
Performance of Pennsylvania Highway Drainage Inlets,
W76-03750 9-08 8B

APPUKUTTAN, K. N.
Simulation of Delta Building Process,
W76-10426 9-19 2L

APRIL, G. C.
Hydrodynamic and Material Transport Model for Mobile Bay, Alabama,
W76-09983 9-18 5B

Water Resources Planning for Rivers Draining into Mobile Bay, Part II: Non-Conservative Species Transport Models,
W76-08327 9-16 5B

APTS, C. W.
Some Effects of Temperature, Chlorine and Copper on the Survival and Growth of the Coon Stripe Shrimp, Pandalus Danae,
W76-12722 9-24 5C

ARAJS, A. A.
Nearshore Currents and Water Temperatures Along the North Shore of Lake Ontario Between Pickering and Cobourg,
W76-11302 9-21 2H

ARAMAKI, K.
Belt Device for Collecting Floating Matter from Water Surface,
W76-01722 9-04 5G

ARAOKA, T.
Fan Disturbing Sand at the Bottom of a Body of Water so That it May be Pumped up Efficiently,
W76-08205 9-16 8C

ARAR, A.
Surface Irrigation Methods and Practices,
W76-01885 9-04 3F

ARAVEEPORN, R.
Resistance to Flow in a Combined Channel,
W76-05273 9-11 8B

ARAVIO-TORRE, J.
The Mercury Content of Industrial Fish Products: Its Relative Variation with the Treatment (Cooking in Salt Water, Pickling and Fish Production), (In Spanish),
W76-09802 9-18 5C

ARBHABHIRAMA, A.
Characteristics of a Circular Jump in a Radial Wall Jet,
W76-01267 9-03 8B

ARCE, A. G.
Summary of Ground Water Quality in the Los Angeles Drainage Province,
W76-00888 9-02 7C

ARCE, M. T.
Relationships of Low, Average and Flood Flows for Streams in the Pacific Northwest,
W76-01507 9-04 2E

ARCE, R. G.
Effects of Agricultural Limestone on Water Chemistry, Phytoplankton Productivity, and Fish Production in Soft Water Ponds,
W76-01936 9-04 5C

ARCHER, W. M.
Niagara River Acoustic Streamflow Measurement System,
W76-04165 9-09 7B

ARCHIMBAUD, M.
The Linkage between Chemical Pollution and Bacteriological Pollution in Coastal Zones. (Recherche D'Une Liaison Entre La Pollution Chimique et la Pollution Bacteriologique Dans Les Zones Littorales),
W76-12590 9-23 5B

ARD, R. W. JR.
Coast Guard's Response to Spilled Oil,
W76-09915 9-18 5A

ARDAKANI, M. S.
Nitrate Reduction and Associated Microbial Populations in a Ponded Hanford Sandy Loam,
W76-08546 9-16 5G

ARDENTE, V.
On the Calculation of the Mean Residence Time in Monomictic Lakes,
W76-10704 9-20 2H

ARDICA, S.
Possible use of High-Level Radiation for the Degradation of Some Substances Present in Urban and Industrial Waters,
W76-09533 9-18 5D

ARDIZZI, G. P.
Wettability of Humic Acid and its Salts,
W76-11421 9-21 2K

AREF, D.
Surface Runoff in Dairies,
W76-03970 9-08 5B

ARES, J.
Dynamics of the Root System of Blue Grama,
W76-13123 9-24 2I

AREVALO, A.
The Mercury Content of Industrial Fish Products: Its Relative Variation with the Treatment (Cooking in Salt Water, Pickling and Fish Production), (In Spanish),
W76-09802 9-18 5C

ARGABRIGHT, P. A.
Ion Exchange of Metals from Aqueous Solutions,
W76-03516 9-08 5D

ARGAMAN, Y.
Use of Jet Pumps in Marine Waste Disposal,
W76-03379 9-07 5E

ARGO, D. G.
AWT Energy Needs a Prime Concern,
W76-11198 9-21 5D

AWT Energy Needs - A Prime Concern,
W76-12919 9-24 5D

Water Factory 21,
W76-11273 9-21 5D

ARIATHURAI, R.
Finite Element Model for Cohesive Sediment Transport,
W76-09264 9-17 2L

ARIHOOD, L. D.
Water-Quality Assessment of the Indiana Dunes National Lakeshore, 1973-74,
W76-02147 9-05 2K

ARIKAWA, Y.
Method of Preventing Scale From Being Deposited In Case of Producing Fresh Water From Sea Water,
W76-05971 9-12 3A

ARION, N. M.
Process for the Regeneration of Ion-Exchange Resins and Applications Thereof,
W76-11447 9-21 3A

ARKHIPOV, B. V.
Hydrocyclone for Clarifying Wool-Washing Liquid,
W76-01675 9-04 5D

ARLE, H. F.
Rates of Herbicides in Irrigated Cotton,
W76-01698 9-04 3F

ARLT, G.
Remarks on Indicator Organisms (Meiofauna) in the Coastal Waters of the GDR,
W76-01946 9-04 5B

ARMACOST, J. F.
Water-Distribution-System Corrosion Control,
W76-06276 9-13 8G

ARMALY, B. F.
Diurnal Solar Flux Distribution in a Deep Water Reservoir,
W76-04941 9-10 2H

ARMBRUSTER, J. A.
Effects of Salt Sprays on the Yield and Nutrient Balance of Corn and Soybeans,
W76-04820 9-10 5C

ARMBRUSTER, J. T.
Technical Manual for Estimating Low-Flow Frequency Characteristics of Streams in the Susquehanna River Basin,
W76-13086 9-24 4A

Water and the South Florida Environment,
W76-03402 9-07 5C

ARMSTRONG, A.
Preliminary Investigation of Ground-Water Quality and Its Effect on Suburban Development in Washoe Valley, Nevada,
W76-04386 9-09 5A

ARMSTRONG, D. A.
Pathology of Acute Poisoning with the Insecticide Sevin in the Bent-Nosed Clam, Macoma Nasuta,
W76-09649 9-18 5C

ARMSTRONG, D. E.
Loss of P32-Phosphate and C14-Carbonate Activity During Liquid Scintillation Counting of Aqueous Samples,
W76-02417 9-05 5A

Phosphorus Mobility in Lake Ontario Sediments,
W76-11288 9-21 5B

A Simplified Phosphorus Analysis Technique,
W76-03705 9-08 5A

ARMSTRONG, J.
Coastal Zone Management: The Process of Program Development,
W76-05204 9-11 6B

ARMSTRONG, J. E.
Evidence for the Occurrence of Specific Iron (III)-Binding Compounds in Near-Shore Marine Ecosystems,
W76-01101 9-03 5B

ARMSTRONG, J. M.
Dynamic Programming Model for Wastewater Plant Investment,
W76-13164 9-24 5D

The Use of Linear Programming Techniques for Estimating the Benefits from Increased Accuracy of Water Supply Systems,
W76-13169 9-24 6A

Water Quality and Economic Criteria for Rural Wastewater and Water Supply Systems,
W76-10583 9-20 5D

ARMSTRONG, N. E.
A Boundary Value Approach for Estuarine Water Quality Modelling with Results for Jamaica Bay, New York,
W76-11881 9-22 5B

ARMSTRONG, R. L.
Development of Methodology for Evaluation and Prediction of Avalanche Hazard in the San Juan Mountain Area of Southwestern Colorado,
W76-06605 9-13 2C

ARN, E.
Technical-Economic Product Design as Typified by a Sewage Pumping Installation,
W76-05591 9-12 5D

ARNAC, M.
The Gulf and the Estuary of the Saint-Lawrence River: Review of the Principal Papers on Chemical Oceanography, (In French),
W76-07993 9-15 5B

ARNETT, R. C.
Oil Pollution Studies on Lake Maracaibo, Venezuela,
W76-00140 9-01 5A

ARNETTE, J. L.
Methodologies for the Determination of Stream Resource Flow Requirements: An Assessment,
W76-09666 9-18 6G

ARNOLD, A.
Radar Derived Spatial Statistics of Summer Rain - Experiment Description,
W76-12178 9-23 7B

ARNOLD, D. J.
A Simple Continuous-Flow Respirometer for Comparative Respiratory Changes in Medium-Sized Aquatic Organisms,
W76-08353 9-16 5C

ARNOLD, D. L. B.
A Fresh Approach to Microstraining,
W76-12659 9-23 5D

ARNOLD, E. L.
The Selection and Application of Slurry Pumps,
W76-00565 9-02 8C

ARNOLD, O. M.
Apparatus for Removing Surface Films From Liquids,
W76-07653 9-15 5D

ARNOLD, R.
Muds, Slimes and Sludges,
W76-10008 9-19 5D

ARNOLD, R. P.
The Common Hertiage of Mankind as a Legal Concept,
W76-01952 9-04 6E

ARNOLD, R. W.
Geomorphology of a Glaciated First-order Valley in South Central New York,
W76-01469 9-03 2J

Soil-Geomorphic Relationships in a First-Order Valley in Central New York,
W76-01855 9-04 2G

ARNOW, T.
Summary Appraisals of the Nation's Ground-Water Resources-Upper Colorado Region,
W76-00662 9-02 2F

ARONSON, A. K.
Note on the Distribution of Mercury in Fish Species in Three Ohio Lakes,
W76-08441 9-16 5C

ARONSON, J. L.
Note on the Distribution of Mercury in Fish Species in Three Ohio Lakes,
W76-08441 9-16 5C

ARPINO, A.
Anionic and Non-Ionic Surfactant Biodegradation in a Purifying Plant using Activating Muds (Biodegradazione de Tensioattivi Anionici e Non-Ionici in un Impianto di Trattamento a Fanghi Attivati),
W76-10238 9-19 5A

ARSCOTT, R. L.
The Effect of Geological Features on the Occurrence of Gas Outburst Fractures in the East Midland Coalfield,
W76-00424 9-01 8E

ARTALE, J. V.
Rehabilitating an 80-Year Old Sewer System,
W76-05764 9-12 5D

ARTAMONOV, K. F.
Sediment Reservoirs in the Channels of Small Mountain Rivers,
W76-06177 9-13 2J

ARTHUR, H. G.
A History of Bureau of Reclamation Construction- Part I,
W76-07222 9-14 8A

A History of Bureau of Reclamation Construction- Part II,
W76-07223 9-14 8A

ARTHUR, J. W.
Comparative Toxicity of Sewage-Effluent Disinfection to Freshwater Aquatic Life,
W76-10898 9-20 5C

Toxicity of a Linear Alkylate Sulfonate Detergent to Larvae of Four Species of Freshwater Fish,
W76-00337 9-01 5C

ARTYUKHOV, A. I.
Use of Electrodialysis in the Water Recycling System of Viscose Production (Primenenie elektrodializa v sisteme vodooborota viskoznogo proizodstva),
W76-10848 9-20 5D

ARULANANDAN, K.
Fundamental Aspects of Erosion of Cohesive Soils,
W76-08540 9-16 2J

ARUMUGAM, A.
Partially Penetrating Well in a Semi-Infinite Media with Initial Gradient,
W76-04951 9-10 4B

ARVIDSON, B.
Sala-HGMS Magnetic Filters for the Treatment of Combined Sewer Overflow,
W76-11265 9-21 5D

ARVINEN, A.
Slime Inhibitor for use in Industrial Water Recirculating Systems,
W76-02253 9-05 5D

ARVOLA, W. A.
California High Water, 1972-1973,
W76-01315 9-03 2E

California High Water, 1973-1974,
W76-01482 9-03 2E

ARYA, L. M.
A Field Study of Soil Water Depletion Patterns in Presence of Growing Soybean Roots: I. Determination of Hydraulic Properties of the Soil,
W76-02933 9-06 2G

ARYA, S. P. S.
A Drag Partition Theory for Determining the Large-Scale Roughness Parameter and Wind Stress on the Arctic Pack Ice,
W76-00909 9-02 2C

ARYSTANOV, I. ZH.
The Effectiveness of Presowing Flooding of the Rice Fields in KZYL-ORDIA Oblast, (In Russian),
W76-02280 9-05 3F

ASADA, Y.
On the Pollution of Water of Some Rivers in the Kasumigaura Lake Basin, (In Japanese),
W76-12568 9-23 5B

ASAKAWA, S.
The Heavy Metal Concentrations in the Marine Sediments Along the Coast of Fukuyama, (In Japanese),
W76-06774 9-13 5A

The Heavy Metal Concentrations in the Waters Along the Coast of Fukuyama, (In Japanese),
W76-09815 9-18 5A

ASAMI, T.
Environmental Pollution by Cadmium and Zinc Discharged from a Braun Tube Factory, (In Japanese)
W76-09405 9-18 5B

ASANO, T.
Application of Kinetic Models to the Control of Activated Sludge Processes,
W76-03794 9-08 5D

Leaching of Pollutants from Wood-Chip Slurry,
W76-04075 9-09 5D

Reclamation of Wood-Chip Carrier Water,
W76-07206 9-14 5D

ASBELL, C. W.
Irrigation of Field Tomatoes and Measurement of Soil Water Changes by Neutron Moderation Methods,
W76-06793 9-13 3F

ASCIK, K.
Determination of Chlorine Dioxide and Other Active Chlorine Compounds in Aqueous Solutions (Oznaczanie dwutlenku chloru oraz innych aktywnych zwiazkow chloru wroztworach wodnych),
W76-12510 9-23 5A

ASHFIELD, G.
Chino Valley Shaker,
W76-03976 9-08 5E

ASHKANASY, N. M.
Flood Frequency Distribution in a Catchment Subject to Two Rainfall Producing Mechanisms,
W76-01425 9-03 2A

ASHRAF, M.
The Impact on Dairy Farm Organization of Alternative Manure Disposal Systems. A Method of Assessing the Cost of Environmental Regulation,
W76-11061 9-20 5D

ASHTON, G. D.
Air Bubbler Systems to Suppress Ice,
W76-11874 9-22 2C

Arching of Fragmented Ice Covers,
W76-08149 9-16 2C

Evaluation of Ice Management Problems Associated with Operation of a Mechanical Ice Cutter on the Mississippi River,
W76-02396 9-05 8C

Isua, Greenland: Glacier Freezing Study,
W76-07789 9-15 2C

ASHTON, J. E.
Method of Storing Sludge Recovered from the Hot Water Extraction of Bitumen from Tar Sands,
W76-10474 9-19 5D

ASHTON, P. M.
A Legal-Historical Analysis of Navigation User Charges,
W76-12532 9-23 6E

ASKEROV, T. A.
Survival Rate of Starving Carp (Cyprinus Carpio Linne), (In Russian),
W76-08552 9-16 5C

ASKEW, A. J.
Use of Risk Premiums in Chance-Constrained Dynamic Programing,
W76-03166 9-07 6A

ASKEW, M. W.
Effluent: The Future Water Supply,
W76-01644 9-04 5D

Some Trends in Industrial Water and Wastes Management,
W76-02429 9-05 5D

A Strategy for Water Pollution Control in Britain,
W76-00638 9-02 5D

ASLYNG, H. C.
Effect of Solar Energy and Water on Plant Productivity (In Bulgarian),
W76-08576 9-16 2I

ASMUSSEN, L. E.
Computing Phreatic Groundwater Storage,
W76-06409 9-13 2F

ASONOV, A. M.
Intensification of the Biochemical Purification of Phenolic Waste Waters in Aeration Tanks (Intensifikatsiya biokhimicheskoy ochistki fenolsoderzhashchikh stochnykh vod v aerotenkakh),
W76-05491 9-11 5D

ASPINWALL, R.
Hydrological and Hydrogeological Assessment of Landfill Sites,
W76-06315 9-13 5E

ASS, G. Y.
Removal of Hydrogen Sulfide from Drinking and Industrial Water, (In Russian),
W76-11541 9-21 5F

ASSEEZ, L. O.
Ecology of the Ogun River Estuary, Nigeria,
W76-07411 9-14 2L

ASSIF, K.
Quantitative Assessment of Changes in Urban Runoff,
W76-09267 9-17 4C

ASTBURY, L. B.
Water Treatment--Technique for Energy Conservation,
W76-05438 9-11 5F

ASTON, A. R.
Coupled Soil Moisture, Heat and Water Vapour Transfers Under Simulated Fire Conditions,
W76-05410 9-11 2G

ASTON, R. J.
The Treatment of Blast Furnace Gas Washing Effluent,
W76-01633 9-04 5D

ASTON, S. R.
Stream Sediment Composition: An Aid to Water Quality Assessment,
W76-11367 9-21 5A

ASTRACK, R. F.
Corps Urban Planning in St. Louis-Maline Creek: An Interdisciplinary Effort,
W76-00074 9-01 3D

ASTRAUSKAS, A. S.
Hydrobiological Condition in the Reservoir-Cooler of the Lithuanian State Regional Electric Power Station, (In Russian),
W76-07944 9-15 5C

ATCHISON, G. J.
Uptake and Distribution of Trace Metals in Fish,
W76-04010 9-09 5C

ATEMA, J.
Behavior of Lobsters (Homarus Americanus) in a Semi-Natural Environment at Ambient Temperatures and Under Thermal Stress,
W76-12761 9-24 5C

ATESMEN, K. M.
Point Source Dispersion in Turbulent Open Channels,
W76-00014 9-01 8B

ATHERTON, W. D.
The Effect of Different Levels of Dietary Fat on the Growth of Rainbow Trout (Salmo Gairdneri Richardson),
W76-07483 9-15 5C

ATKINSON, D. G.
Cascade Atmospheric Water Resources Program, Volume 2,
W76-06601 9-13 3B

Cascade Atmospheric Water Resources Program, Volume 3,
W76-06602 9-13 2B

ATKINSON, E. S.
Bleach Plant Pollution Abatement -- Where Do We Stand,
W76-05719 9-12 5D

ATKINSON, G. O.
Making the Most of Rotary Percussion Bits,
W76-00385 9-01 8C

ATKINSON, L. P.
Stimulation and Inhibition of Phytoplankton Growth by Low Molecular Weight Hydrocarbons,
W76-01923 9-04 5C

ATLAS, R. M.
Biodegradation of Oil on Water Surfaces,
W76-11844 9-22 5G

Effects of Petroleum Pollutants on Arctic Microbial Populations,
W76-09909 9-18 5C

ATTANASI, E. D.
Techniques for Water demand Analysis and Forecasting: Puerto Rico, a Case Study,
W76-03407 9-07 6D

ATTMANNSPACHER, W.
Accuracy of Reservoir Inflow Forecasts Based on Radar Rainfall Measurements,
W76-09574 9-18 2B

ATTOE, O. J.
Comparison of Inorganic Nitrogen Contents of Undisturbed, Cultivated, and Barnyard Soil Profiles in Wisconsin,
W76-05263 9-11 5B

ATUTA, S.
Experiments on Fluid Bed Treatment Using Petroleum-Based Spheroidal Dust Coal, (In Japanese),
W76-00211 9-01 5F

ATWATER, M. A.
The Radiation Budget of Lake Ontario,
W76-11295 9-21 2H

ATWELL, B. H.
A Review of Initial Investigations to Utilize Erts-1 Data in Determining the Availability and Distribution of Living Marine Resources,
W76-02041 9-05 7B

ATWELL, J. S.
Water Pollution Control Problems and Programs of the Maine Sardine Council,
W76-04739 9-10 5D

ATWOOD, E. L.
Mini Sewage Treatment System,
W76-02216 9-05 5D

AUBERT, M.
Effects of Chemical Pollutants on Telemediators Intervening in the Microbiological and Planktonic Ecology in a Marine Environment: III, (In French),
W76-12922 9-24 5C

The Problem of Mercury in the Mediterranean, (In French),
W76-11531 9-21 5B

Study of the Dispersion of Bacteriophages in a Natural Marine Environment, (In French),
W76-06691 9-13 5B

Teledetection by Airplane and Satellite in the Study of Marine Pollution, (In French),
W76-06717 9-13 5A

The use of a Pelagic Trophodynamic Chain for Studying the Transfer of Metallic Pollutants, (In French),
W76-00577 9-02 5B

Use of A Trophodynamic Chain of the Benthic Type for the Study of Transfers of Metallic Pollutants, (In French),
W76-10944 9-20 5C

AUBERTIN, G. M.
Effects of Management Practices on Water Quality and Quantity: Fernow Experimental Forest, W. Virginia,
W76-07021 9-14 4C

AUBRY, L. W. JR.
Criminal Jurisdiction Over Arctic Ice Islands: United States V. Escamilla,
W76-04341 9-09 6E

AUDIBERT, R.
Used Oils as Sources of Raw Materials and of Energy (les huiles usagees source de Matieres Premieres et d'energie),
W76-00498 9-01 5D

AUDUNSON, T.
Comparison Between Physical and Mathematical Modelling of a Tidal Fjord System in Northern Norway,
W76-10445 9-19 2L

Computations of the Temperature Response of Stratified Sill Fjords to Cooling-Water Discharges,
W76-08857 9-17 5B

AUER, A. H. JR.
Precipitation Rates for Some Types of Solid Hydrometeors,
W76-06934 9-14 2B

AUL, J. S.
Measuring Snow Cover from ERTS Imagery on the Black River Basin,
W76-02756 9-06 2C

Use of Areal Snow Cover Measurements to Develop Snowmelt-Runoff Relationships for Arizona,
W76-02453 9-05 2C

AULD, A. H.
Hatching Success of Blueback-Herring and Striped-Bass Eggs with Various Time vs. Temperature Histories,
W76-02008 9-05 5C

AULENBACH, D. B.
Distribution of Metals in Lake Sediments of the Adirondack Region of New York State,
W76-05475 9-11 5C

Nutrient Inputs to a Lake and Their Effects Upon Water Quality,
W76-00104 9-01 5C

Seasonal Variations in the Purification of Treatment Plant Effluent in Natural Sand Deposits,
W76-13121 9-24 5D

Sources and Distribution of Trace Metals in Aquatic Environments,
W76-01651 9-04 5B

AULENBACHER, M. W.
How to Free a Stuck String,
W76-10110 9-19 8G

AUNIN'SH, E. A.
Lignosulfonates and Natural Water-Soluble Lignin in the Lielupe River (Lignosul'fonaty i prirodnyi vodorastvorimyi lignin v vode r. Lielupe),
W76-10835 9-20 5B

Self-Purification of Some Rivers of the Latvian SSR from Substances Determining the Biochemical Oxygen Demand Value, (In Russian),
W76-07069 9-14 5G

AURAND, D. W.
Effects of Management Practices on Water Quality and Quantity: Penn State Experimental Watersheds,
W76-09463 9-18 4D

AUROY, M.
Purification of Waste Water Containing Phthalic Esters,
W76-05982 9-12 5D

AUSEN, V.
What Should be Done with Haugatjern, (In Norwegian),
W76-07401 9-14 5C

AUSMUS, B.
Effects of Tree Species, Temperature, and Soil on Transfer of Manganese-54 from Litter to Roots in a Microcosm,
W76-10317 9-19 5C

AUSMUS, B. S.
A Theoretical Basis for Ecosystem Analysis with Particular Reference to Element Cycling,
W76-10268 9-19 5C

AUSNESS, R. C.
Legal Institutions for the Allocation of Water and Their Impact on Coal Conversion Operations in Kentucky,
W76-11489 9-21 6E

The Use and Legal Significance of the Mean High Water Line in Coastal Boundary Mapping,
W76-04355 9-09 6E

AUST, A.
Social, Legal, and Economic Considerations of Animal Production in Urbanized Areas,
W76-00916 9-02 5D

AUST, I. E.
Urban Water Use in Australia,
W76-03272 9-07 6D

AUST, M. I.
Urban Water Use in Australia,
W76-03272 9-07 6D

AUSTIN, E. P.
Development of a Continuous Inclined Sand Bed Filter,
W76-09668 9-18 5D

AUSTIN, H. M.
The Effects of Temperature on the Development and Survival of the Eggs and Larvae of the Atlantic Silverside, Menidia Menidia,
W76-03777 9-08 5C

AUSTIN, R. W.
Beam Transmissometers for Oceanographic Measurements,
W76-03879 9-08 2L

Volume-Scattering Functions in Ocean Waters,
W76-03880 9-08 2L

AUSTIN, T. A.
Cost Optimization of Rural Water Systems,
W76-11167 9-21 6C

Estimating Stock Water Use in Rural Water Systems,
W76-11696 9-22 3F

AUSTIN, T. S.
Data Management: Key to Environmental Quality Assessment,
W76-11607 9-21 5G

AUTRY, B.
Suspended Sediment and Turbidity in Irrigation Return Flows - A Prototype Study,
W76-13017 9-24 5B

AVANZINO, R. J.
Solute Transport and Modeling of Water Quality in a Small Stream,
W76-08058 9-15 5B

AVARIA, P. S.
Studies of Phytoplankton Ecology in the Bay of Valparaiso: II. Phytoplankton 1970-1971, (In Spanish),
W76-09408 9-18 5A

AVERBURG, I. V.
Quantitative Characteristics of Distribution of Bdellovibrio Bacteriovorus in River Water, (In Russian),
W76-11551 9-21 5A

AVERETT, R. C.
Evaluation of Copper Accumulation in Part of the California Aqueduct,
W76-02957 9-06 5B

An Introduction to the Processes, Problems, and Management of Urban Lakes,
W76-01588 9-04 2H

Methods for Collection and Analysis of Aquatic Biological and Microbiological Samples,
W76-03915 9-08 5A

Variation in Concentration of Selected Water-Quality Constituents in the Sacramento River at Bend Bridge, California,
W76-11078 9-20 5A

AVIS, L. M.
A Generalized Tensor Formulation of Atmosphere and Seas Dynamics,
W76-04317 9-09 2A

AVISE, J. C.
Biochemical Genetics of Sunfish III. Genetic Subdivision of Fish Populations Inhabitating Heated Waters,
W76-03481 9-07 5C

AVNIMELECH, Y.
The Control of Nitrate Accumulation in Soils by Induced Denitrification,
W76-00732 9-02 5B

AVOLIZI, R. J.
Effects of Crude Oil and Dispersants on Bivalves,
W76-11591 9-21 5C

AVOTINS, P.
The Time Stability of Dissolved Mercury in Water Samples-I. Literature Review,
W76-08767 9-17 5A

The Time Stability of Dissolved Mercury in Water Samples--II. Chemical Stabilization,
W76-03009 9-07 5A

AWASTHI, R. P.
Effect of Different Frequencies of Irrigation on Granulation in Sweet Orange (Citrus Sinensis Osbeck),
W76-06797 9-13 3F

AWERBUCH, L.
Geothermal Energy Recovery Process,
W76-10967 9-20 3A

AXELRAD, D. M.
Nitrogen, Phosphorus and Carbon Flux in Chesapeake Bay Marshes,
W76-06162 9-13 5C

AXLEY, J. H.
Poultry Processing Plant Wastewater Disposal on Sod,
W76-06811 9-14 5D

AXTELL, R. J.
Basingstoke Sewage Treatment Works, 1961-1975,
W76-09030 9-17 5D

AYANABA, A.
Transformations of Methylamines and Formation of a Hazardous Product: Dimethylnitrosamine, in Samples of Treated Sewage and Lake Water,
W76-12141 9-22 5B

AYER, G. R.
Water Resources of the Black River Basin, New York,
W76-04982 9-10 4A

AYERS, F. E.
The Master Plan for Water Supply in the Regional Municipality of Ottawa-Carleton,
W76-05815 9-12 6D

AYERS, K. C.
Process and Plant for Treating Sewage and the Like,
W76-00774 9-02 5D

AYERS, R. R.
Oil Spill Cleanup Method and Apparatus,
W76-11846 9-22 5G

Removal of Floating Pollutants,
W76-05533 9-12 5G

AYLES, G. B.
Seasonal Mortality of Rainbow Trout (Salmo Gairdneri) Planted in Smalll Eutrophic Lakes of Central Canada,
W76-11179 9-21 5C

AYOADE, J. O.
Water Resources and Their Development in Nigeria,
W76-11860 9-22 4A

AYRES, G. H.
Spectrophotometric Determination of Ruthenium with 3- (2-Pyridyl) -5, 6-Diphenyl-1,2,4-Triazine,
W76-03299 9-07 5A

AZAD, H. S.
The Rationale of Zero Discharge,
W76-05315 9-11 5D

AZAM, F.
Improved Methodology for ATP Determination in Marine Environments,
W76-08958 9-17 5C

Silicic Acid Uptake and Incorporation by Natural Marine Phytoplankton Populations,
W76-08941 9-17 5C

AZEVEDO, J.
Farm Animal Manures: An Overview of Their Role in the Agricultural Environment,
W76-10548 9-20 5G

AZORLOSA, J. L.
Flocculation of Suspended Solids,
W76-10468 9-19 5D

AZUMA, M.
The Maintenance and Management of Sewage Pipe Systems (Gesuikanro no iji kanri),
W76-08005 9-15 8A

BABCOCK, H. M.
Annual Summary of Ground-Water Conditions in Arizona, Spring 1974 to Spring 1975.
W76-12792 9-24 7C

BABU, D. K.
Infiltration Analysis and Perturbation Methods I. Absorption with Exponential Diffusivity,
W76-08334 9-16 2G

BABU RAO, T.
How Much Precipitation Goes to Infiltration During a Storm Period,
W76-08339 9-16 2A

BABU, V. R.
On The Rainfall and Water Potential of Nepal,
W76-09642 9-18 2B

Seed Germination and Early Seedling Growth of Wheat (Triticum Aestivum Linn.) CV. 1553 Under the Influence of Salinity and Plant-Growth Hormones,
W76-10169 9-19 3C

BACA, R. G.
Studies of Columbia River Water Quality Development of Mathematical Models for Sediment and Radionuclide Transport Analysis,
W76-12702 9-24 5B

BACCI, E.
Bodily Distribution, Accumulation and Excretion of Mercury in a Fresh-Water Mussel,
W76-10081 9-19 5C

BACHE, D. H.
Density Current Surges I--Their Role in the Initial Dispersion of A Surface Field,
W76-10707 9-20 5B

Density Current Surges II--The Movement of Surges in a Turbulent Environment and Their Role in Surface Field Dispersion,
W76-10708 9-20 5B

BACHMAN, G. O.
Cenozoic Deposits of Southeastern New Mexico and an Outline of the History of Evaporite Dissolution,
W76-09837 9-18 2J

BACHMANN, R. W.
Calculation of Water Temperatures in Clear Lake, Iowa,
W76-09879 9-18 5B

Nutrients and Algae in Some Central Iowa Streams,
W76-01152 9-03 5C

Warm Water Stream Alteration in Iowa: Extent, Effects on Habitat, Fish, and Fish Food, and Evaluation of Stream Improvement Structures (Summary Report),
W76-12235 9-23 4C

BACHMANN, W.
A Study of the Effects of Stream Channelization and Bank Stabilization on Warmwater Sport Fish in Iowa: Subproject 4: The Effects of Longreach Channelization on Habitat and Invertebrate in Some Iowa Streams,
W76-12231 9-23 4C

BACK, E. L.
Biochemical and Chemical Oxygen Demands of Carbohydrates with Different Degrees of Polymerization,
W76-05303 9-11 5D

Chemical Characterization of Fiber Building Board Mill Effluent,
W76-05731 9-12 5A

BACK, W.
Application of Geochemical Principles, Isotopic Methodology, and Artificial Tracers to Karst Hydrology,
W76-07112 9-14 2F

BACKER, D. S.
Design and Operation of a Feedlot Runoff Treatment System,
W76-01088 9-03 5D

BACKER, M. I.
Geohydrology of the Lake Area at Kathryn Abbey Hanna Park, Jacksonville, Florida,
W76-07602 9-15 2F

BACKLUND, S.
Drift of Microalgae in Ricklean, Sweden, (In Swedish),
W76-05071 9-11 5C

BACKMAN, T. W.
Irradiance Reduction: Effects on Standing Crops of the Eelgrass, Zostera Marina in a Coastal Lagoon,
W76-10067 9-19 5C

BACKUS, E.
Minimal Cost Plant Cleaning Up Harbor,
W76-05796 9-12 5D

BACON, J. C.
A Computer Simulation Technique for Oil Spills Off the New Jersey-Delaware Coastline,
W76-11940 9-22 5B

Predicted Oil Slick Movement from Various Locations Off the New Jersey-Delaware Coastline,
W76-12376 9-23 5B

BADENHOP, M. B.
Economic Effects of Agricultural Land-Use Management on Soil Erosion and Farm Income in the Obion-Forked Deer River Basin,
W76-10612 9-20 4A

BADER, H.
Ozonation of Water: Role of Hydroxyl Radicals as Oxidizing Intermediates,
W76-03703 9-08 5F

The Role of Hydroxyl Radical Reactions in Ozonation Processes in Aqueous Solutions,
W76-10036 9-19 5D

BADGER, R. B.
Aeration Plant Design: Derivation of Basic Data and Comparative Performance Studies,
W76-00265 9-01 5D

BADRINARAYAN, R. M.
The Physico-Chemical Changes of Newly Flooded Soils,
W76-07980 9-15 2G

BAECKSTROEM, K.
New Waterworks in Stockholm,
W76-00228 9-01 5F

BAEHN, W.
Studies on the Effect of Soil Density, Temperature and Fertilization of the Soil Moisture, Value Obtained with a Dielectric Measuring Technique, (In German),
W76-06727 9-13 2G

BAER, F.
Studies on Numerical Modeling and Modification of Cyclone Scale Precipitation,
W76-13185 9-24 3B

BAER, F. H.
Prefab Casting System Paces Sewer Job Through Wet Site,
W76-08012 9-15 8A

BAER, J.
Rain Gauge,
W76-08397 9-16 2B

BAEUMER, K.
Soil Moisture Regime of Loessial Soils in Western Germany as Affected by Zero-Tillage Methods,
W76-07437 9-14 2G

BAEYENS, D. A.
In Vivo Oxygen Toxicity in Invertebrates and Vertebrates,
W76-03016 9-07 5C

BAFFA, J. J.
Artificial Groundwater Recharge and Wastewater Reclamation,
W76-02197 9-05 5D

Planning a Must for Groundwater Development,
W76-00422 9-01 4B

Planning a Must for Groundwater Development,
W76-06273 9-13 4B

BAFUS, G. R.
Thermal Analysis of Frozen Embankment Islands,
W76-12200 9-23 2L

BAGDASAR'YAN, G. A.
Direct Detection of Pathogens of Intestinal Infections in Water, (In Russian),
W76-07274 9-14 5A

BAGI, G.
Valyl tRNA's of Anacystis Nidulans,
W76-08827 9-17 5C

BAGNALL, L. O.
Feed and Fiber From Effluent-Grown Water Hyacinth,
W76-03551 9-08 5D

BAHIS, L.
Groundwater Seepage and its Effect On Saline Soils,
W76-02639 9-06 2G

BAHNER, L. H.
A Salinity Controller for Flow-Through Bioassays,
W76-01929 9-04 5A

BAHR, T. G.
Mercury Dynamics in a Warmwater Stream Receiving Municipal Wastewater,
W76-05077 9-11 5C

The Michigan State University Water Quality Management Program,
W76-03565 9-08 5D

BAI, B. M.
Factors in the Purification of Flowing Sewage and Activated Sludge Process - Part 2,
W76-10513 9-20 5D

BAICHEVA, D.
Foam Formation in Plants for Biological Purification of Effluents from the Manufacture of Kraft Pulp (Penoobrazuvaneto v stantsiite za biologichno prechistvane naotpad' chite vodi ot proizvodstvoto na sulfatnatseluloza),
W76-10833 9-20 5D

Removal of Surface-Active and Other Substances Causing the Formation of Stable Foam During Purification of Effluents from the Manufacture of Unbleached Kraft Pulp (Opiti za otstranyavane na pov'rkhnostno-aktivnite i drugi veshchestva, obuslavyashchi obrazuvaneto na ustojchiva pyana pri prechistvaneto na otpad'chni vodi ot proizvodstvoto na neizbelena sulfatna tseluloza),
W76-10834 9-20 5D

BAIER, D.
Manure Holding Ponds found Self-Sealing,
W76-04428 9-09 5D

Manure Waste Ponding Study,
W76-01038 9-03 5D

BAIER, D. C.
Surface Runoff in Dairies,
W76-03970 9-08 5B

BAIER, J. H.
Contaminants in Rainwater and Their Relation to Water Quality, Part I,
W76-01769 9-04 5B

Contaminants in Rainwater and Their Relation to Water Quality, Part II,
W76-03445 9-07 5A

BAIER, R. E.
Methods to Treat, Control and Monitor Spilled Hazardous Materials,
W76-01869 9-04 5G

BAIERE, K. W.
Treatment of Sulfite Evaporator Condensates for Recovery of Volatile Components,
W76-02336 9-05 5D

BAIERL, K. W.
Recovery and Separation of Chemicals Produced During Kraft Pulping Operations,
W76-08467 9-16 5D

BAILARD, J. A.
Analytical Model of Duct-Flow Fluidization,
W76-10450 9-19 8B

BAILEY, A. K.
Concentration of Heavy Metals in Sediments of a Hydroelectric Impoundment,
W76-09755 9-18 5A

BAILEY, B. H.
Variation of Urban Runoff Quality and Quantity with Duration and Intensity of Storms - Phase III, Volume 3 - Analysis of Flow Models,
W76-08280 9-16 2A

BAILEY, D. A.
The Removal of Inorganic Nitrogen from Sewage Effluents by Biological Denitrification,
W76-03347 9-07 5D

The Role of High Rate Bio-Filters in the Leather Industry,
W76-08180 9-16 5D

BAILEY, G.
An Integrated Study on the Impact of Metallic Trace Element Pollution in the Coeur D'Alene-Spokane Rivers-Lake Drainage System,
W76-11488 9-21 5C

BAILEY, G. C.
Study of Silver Lake Eutrophication--Current Problems and Possible Solutions,
W76-04568 9-10 5C

BAILEY, H. T.
Respiratory Response of Juvenile Chinook Salmon and Striped Bass Exposed to Benzene, A Water-Soluble Component of Crude Oil,
W76-09323 9-17 5C

BAILEY, J. F.
Hurricane Agnes Rainfall and Floods, June-July 1972,
W76-03397 9-07 2E

BAILEY, M.
Novel Aeration System Bows,
W76-06289 9-13 5D

BAILEY, M. C.
Caernarfon Sludge Goes Up in Smoke,
W76-06291 9-13 5E

BAILEY, R. G.
Land-Capability Classification of the Lake Tahoe Basin, California-Nevada, A Guide for Planning,
W76-01346 9-03 4A

BAILEY, S. V.
Corps Urban Planning in St. Louis-Maline Creek: An Interdisciplinary Effort,
W76-00074 9-01 3D

BAILEY, T. E.
Ground Water Quality Monitoring for California's Needs,
W76-11065 9-20 5A

Water Quality Planning Strategy,
W76-06439 9-13 5G

BAILEY, W. H.
Biological Treatment of Shipboard Sanitary Waste water,
W76-01229 9-03 5D

BAILIE, R. C.
Assessment of Polyvinyl Chloride as a Packaging Material for Distilled Spirits, (Enivronmental Impact Assessment),
W76-10722 9-20 6G

BAILLIE, R. A.
Method of Reducing Sludge Accumulation from Tar Sands Hot Water Process,
W76-05965 9-12 5D

BAILY, P.
Effect of Sample Preparation on Blood Lead Values,
W76-09130 9-17 5A

BAIMBETOV, K.
The Effectiveness of Presowing Flooding of the Rice Fields in KZYL-ORDIA Oblast, (In Russian),
W76-02280 9-05 3F

BAINBRIDGE, K. L.
Mercury Dynamics in a Warmwater Stream Receiving Municipal Wastewater,
W76-05077 9-11 5C

BAINES, F. C.
Biodegradation of Polyvinyl Alcohol in Wastewater,
W76-06967 9-14 5D

BAIRAMOV, R.
Wind-Solar Power Installations for Water Raising and Distillation, (In Russian),
W76-11524 9-21 3A

BAIRD, F. L.
Attitudes and Public Participation on the High Plains Toward Groundwater Planning and Management Institutions,
W76-08375 9-16 6B

BAIRD, R. C.
Chlorinated Hydrocarbons in Mesopelagic Fishes of the Eastern Gulf of Mexico,
W76-08434 9-16 5C

Ecological Base-Line Study of the Fish of the Anclote Anchorage,
W76-02019 9-05 5C

BAISSAC, P. DE B.
Observations on the Effects of Crude Oil Pollution on the Sandy-Beach Snail, Bullia (Gastropoda:Prosobranchiata),
W76-11459 9-21 5C

BAKAITIS, N. M.
Analysis of Sewage Lagoon Biomass Water Soluble Vitamins by Microbiological Techniques,
W76-03550 9-08 5A

BAKER, C. D.
Improved Methods for the Measurement of Dissolved and Particulate Organic Carbon in Fresh Water and Their Application to Chalk Streams,
W76-07428 9-14 5A

Natural Biological Control of the Salt Marsh Mosquito in the Acid Mine Drainage Swamps in Western Kentucky,
W76-02433 9-05 5G

BAKER, C. H. JR.
National Water Data Storage and Retrieval System: Instructions for Preparation and Submission of Ground-Water Data,
W76-10148 9-19 10D

BAKER, D. A.
Petroleum Processing Wastes, (Literature Review),
W76-05093 9-11 5D

Petroleum Processing Wastes, (Literature Reviews),
W76-12415 9-23 5D

BAKER, D. E.
Kiln Dust from Cement Factories for Vacuum Filter Processing of Sewage Sludge,
W76-03214 9-07 5D

BAKER, D. G.
Climate of Minnesota, Part VIII--Precipitation Patterns in the Minneapolis-St. Paul Metropolitan Area and Surrounding Counties,
W76-00504 9-02 2B

BAKER, D. R.
Oxygen Transfer at High Solids Concentrations,
W76-03236 9-07 5D

LIBRARY U. OF I. URBANA-CHAMPAIGN

BAKER, D. R.

Simultaneous Transport of Water and Adsorbed Solutes Through Soil Under Transient Flow Conditions,
W76-00032 9-01 2G

BAKER, E. T.
Continuous Light-Scattering Profiles and Suspended Matter Over Nitinat Deep-Sea Fan,
W76-03886 9-08 2L

Distribution, Composition, and Transport of Suspended Particulate Matter in the Vicinity of Willapa Submarine Canyon, Washington,
W76-08737 9-16 2L

BAKER, E. T. JR.
Summary Appraisals of the Nation's Ground-Water Resources--Texas-Gulf Region,
W76-08051 9-15 2F

BAKER, F. G.
Variability of Hydraulic Conductivity in Two Subsurface Horizons of Two Silt Loam Soils,
W76-09257 9-17 2G

BAKER, H.
The Plight of the Urban Reservoir: A Case Study,
W76-07452 9-15 5C

BAKER, J. C.
Combined Daily Climatic Data and Dilute Solution Chemistry in Studies of Soil Profile Formation,
W76-03450 9-07 2G

BAKER, J. L.
Effect of Tillage Systems on Runoff Losses of Pesticides: A Simulated Rainfall Study,
W76-11169 9-21 5B

Movement of Herbicides in Soil by Mass Flow,
W76-03134 9-07 5B

Nitrate, Phosphorus, and Sulfate in Subsurface Drainage Water,
W76-01146 9-03 5B

BAKER, J. M.
Biological Effects of Refinery Effluents,
W76-09322 9-17 5C

BAKER, M. B.
Snowmelt Runoff Efficiencies on Arizona Watersheds,
W76-03581 9-08 3B

BAKER, M. B. JR.
Effects of Pinyon-Juniper Removal on Natural Resource Products and Uses in Arizona,
W76-08108 9-16 4C

Modeling Management of Ponderosa Pine Forest Resources,
W76-02672 9-06 4C

Multiple Use Evaluations on Ponderosa Pine Forest Land,
W76-08109 9-16 4A

Snowmelt Runoff Efficiencies on Arizona Watersheds,
W76-02866 9-06 2C

BAKER, R.
Residual Chlorine: Something New to Worry About,
W76-03071 9-07 5D

BAKER, R. A.
Reference Guide to Methodology for the Analysis of Organic Compounds.
W76-07590 9-15 5A

BAKER, R. M.
Freeing the Beaches: Is It Possible,
W76-13106 9-24 6E

BAKER, V. R.
Flood Hazards Along the Balcones Escarpment in Central Texas--Alternative Approaches to their Recognition, Mapping, and Management,
W76-03723 9-08 4A

BAKHAREVSKAYA, O. S.
Removal of Hydrogen Sulfide from Drinking and Industrial Water, (In Russian),
W76-11541 9-21 5F

BAKHSHI, N. N.
Lab-Proven Fly Ash Process Removes Bleach Effluent Color,
W76-05707 9-12 5D

BAKIR, A. K.
Pollution Abatement of Poultry Manure BY Maxi-Mixing Method,
W76-07202 9-14 5D

BAKKOM, T.
Solid Waste: Is There a Profit Potential,
W76-12951 9-24 5D

BAKUNOV, N. A.
Accumulation of Cs137 by Industrial Fish Species in the Caspian Sea,
W76-06891 9-14 5C

BALAKAEV, B. K.
Some Problems of Large Irrigation Channel Construction in Desert Conditions, (In Russian),
W76-03972 9-08 4A

BALAKOVSKII, M. S.
Isolation of Salmonella from Sewage and Surface Waters, (In Russian),
W76-09411 9-18 5A

BALAKRISHNAN, S.
95% BOD Removal Result of Fruit Plant Modifications,
W76-04201 9-09 5D

BALAN, M.
Purification of Waste Waters Contaminated With Methanol (Epurarea Apelor Reziduale Impurificate cu Metanol),
W76-02585 9-06 5D

BALAN, S.
Studies on the Interactions Between Soil Water and Thinly Dispersed Solid Matter Using the Moist Heat Method, (In Romanian),
W76-12706 9-24 2G

Studies on the Relationships Between Moisture and Suction in Some Soils of the Tisa Plain, (In Rumanian),
W76-10000 9-18 2G

BALANI, M. C.
Impact of Thermal and Radioactive Effluents on a Tropical Nearshore Ecosystem,
W76-09492 9-18 5C

BALASHOVA, N. B.
Algal Flora of Upper Istisu Hot Springs, (In Russian),
W76-07985 9-15 5C

BALASUBRAMANIAN, V.
Field Study of Solute Movement in a Highly Aggregated Oxisol with Intermittent Flooding: II. Picloram,
W76-00718 9-02 5B

BALATOVA-TULACOVA, E.
The Phragmitetea and Molinietalia Associations in the Thaya, March and Danube River Basins of Austria, (In German),
W76-09076 9-17 4A

BALAZS, G. H.
Serum Constituents of the Malaysian Prawns (Macrobrachium Rosenbergii) and Pink Shrimp (Penaeus Marginatus),
W76-07966 9-15 5C

BALCER, Y.
A Probabilistic Model of the Oil and Gas Discovery Process,
W76-09604 9-18 6A

BALDOCK, E. H.
Metropolitan Toronto's Approach to Preventative Maintenance for Treatment Plants,
W76-11255 9-21 5F

Toronto's Approach to Preventive Maintenance for Treatment Plants,
W76-05780 9-12 5F

BALDRIDGE, R.
Summary of Ground Water Quality in the Los Angeles Drainage Province,
W76-00888 9-02 7C

BALDWIN, J. P.
A Quantitative Analysis of the Factors Affecting Plant Nutrient Uptake from Some Soils,
W76-09489 9-18 2G

BALDWIN, L. B.
Agricultural Practices to Reduce Non-Point Pollution in the Okeechobee-Kissimmee Basin,
W76-12041 9-22 6E

Land Disposal of Effluent from a Sanitary Landfill,
W76-00893 9-02 5E

BALICKA, N.
The Effect of Microorganisms on Phytotoxicity of Herbicides. III. Interaction of Bacillus SP. 72 with Venzar,
W76-07105 9-14 5C

BALJET, P.
Air and Water Quality Standards in Florida,
W76-02096 9-05 5G

BALL, D. J.
Simulation of Piers in Hydraulic Models,
W76-07231 9-14 8B

BALL, J. L. JR.
An Assessment of the Expected Impact of a Dredging Project Proposed for Pala Lagoon, American Samoa,
W76-06654 9-13 6G

BALL, J. T.
Cloud Analysis and Diagnosis over Lake Ontario and Vicinity,
W76-11432 9-21 2H

BALL, M. O.
Planning the Location and Capacity of Flood Control Structures,
W76-12156 9-23 4A

BALL, R. C.
Community Productivity and Energy Flow in an Enriched Warm-Water Stream,
W76-07608 9-15 5C

The Michigan State University Water Quality Management Program,
W76-03565 9-08 5D

The Nutrient Composition, Dynamics, and Ecological Significance of Drift Material in the Red Cedar River,
W76-12946 9-24 5C

Nutrients and Primary Production in a Warm Water Stream,
W76-07104 9-14 5C

BALLANCE, W. C.
Ground-Water Levels in Wyoming, 1974,
W76-02964 9-06 7C

Radiochemical Monitoring of Water After the Cannikin Event, Amchitka Island, Alaska, August 1974, and Chemical Monitoring from July 1972 to June 1974,
W76-07607 9-15 5A

Radiochemical Monitoring of Water After the Cannikin Event, Amchitka Island, Alaska, May 1974,
W76-07606 9-15 5A

BALLANTINE, D.
Observations on Blooms of the Dinoflagellate Gyrodinium Aureolum Hulburt in the River Conway and its Occurrence Along the North Wales Coast,
W76-06245 9-13 5C

BALLANTINE, D. S.
Alternative High-Level Radiation Sources for Sewage and Waste-Water Treatment,
W76-09536 9-18 5D

BALLARD, J.
An Experiment in the Eutrophication of Terrestrial Ecosystems with Sewage: Evidence of Nitrification in a Late Successional Forest,
W76-03555 9-08 5C

Experimental Eutrophication of Terrestrial and Aquatic Ecosystems. First Annual Report of the Upland Recharge Project,
W76-01155 9-03 5D

BALLESTRA, S.
Intercalibration of Methods for Radionuclide Measurements on a Seaweed Sample,
W76-08626 9-16 5A

BALLO, I. Z.
Water Resources Development in the Tisza River Basin and Its Impact on Socio-Economic Growth,
W76-05519 9-11 4A

BALLOTTI, E. F.
Computer Based Control for Wastewater Systems,
W76-10019 9-19 5D

Land and Sea Solids Management Alternatives in Philadelphia,
W76-07033 9-14 5E

BALLU, L.
Floating Anti-Pollution Barrier,
W76-03513 9-08 5G

BALLWEBER, E. G.
Cationic Polymers for Breaking Oil-In-Water Emulsions,
W76-11449 9-21 5D

BALSILLIE, J. H.
Analysis and Interpretation of Littoral Environment Observation (Leo) and Profile Data Along the Western Panhandle Coast of Florida,
W76-06637 9-13 2L

BALTISBERGER, R. J.
The Microdetermination of Mercury Species in Natural Water Systems by Liquid Chromatography,
W76-02630 9-06 5A

BALTZER, R. A.
Compiling Bathymetry for Flow Simulation Models,
W76-13064 9-24 7C

BALYASOVA, YE. L.
Variations in the Level Regime of Highmoor Bogs in the European USSR,
W76-07077 9-14 2H

BAMBERG, S. A.
Quantitative Studies of Roots of Perennial Plants in the Mojave Desert,
W76-02531 9-06 2I

BAMFORTH, S. S.
Interstitial Protozoa and Algae of Louisiana Salt Marshes,
W76-09593 9-18 5C

BANAGA, S. E. I.
A Study of Rotating-Disc Treatment Units Operating at Different Temperatures,
W76-09674 9-18 5D

BANANOVA, V. A.
Changes in the Microphytocenotic Composition of Quack Grass Meadows in the Flood Plain of the Lower Don in Different Years, (In Russian),
W76-07953 9-15 2I

BANBURY, E. E.
Techniques for Improving Tree Survival and Growth in Semiarid Areas,
W76-10175 9-19 2I

BANCSI, J. J.
Assessment of Polyelectrolytes for Phosphorus Removal,
W76-10492 9-19 5D

Laboratory Evaluation of Polymeric Flocculants,
W76-12898 9-24 5D

Use of Polyelectrolytes for Overload Clarifiers,
W76-03669 9-08 5D

BANDEKAR, J.
A Local-Structure Model for Calculation of Lattice Vibrations in Liquid Water,
W76-02512 9-06 1A

BANDYOPADHYA, A. K.
Studies on Depth and Quality of Water on Soil Salinization: Behaviour of Anions in the Soil Profile with Reference to the Position of Water Table,
W76-06141 9-12 2G

BANERJEE, B.
Sewage Treatment with Activated Fly-Ash and Regenerated Alum Sludge,
W76-09183 9-17 5D

BANERJI, R. N.
Union Carbide's Reuse of Sewage Water,
W76-11261 9-21 5D

BANERJI, S.
Design of Water Resources Project with Inadequate Data in India - General and Particular Case Studies,
W76-09621 9-18 4A

BANERJI, S. K.
Detergents, (Literature Review),
W76-12925 9-24 5C

Grease Problems in Municipal Wastewater Treatment Systems,
W76-03225 9-07 5D

We Must Improve Chlorination Design,
W76-01554 9-04 5D

BANKS, D. H.
Small Sewage Works that Function Satisfactorily,
W76-10228 9-19 5D

BANKS, H. O.
Legal Requirements for Monitoring Groundwater Quality,
W76-10656 9-20 5G

Panel on Discipline Summaries and Outlooks: Interdisciplinary Planning and Use of the Systems Concept in Planning,
W76-00079 9-01 6A

BANKS, N.
Coleshill (1): Experimenting with Waste Water Treatment,
W76-12609 9-23 5D

UK Work on the Use of Oxygen in the Treatment of Waste Water, Associated with the CCMS Advanced Waste Water Treatment Project, (II).
W76-12669 9-23 5D

BANKS, N. L.
The Size and Shape of Small-Scale Current Ripples: An Experimental Study Using Medium Sand,
W76-03854 9-08 2J

BANKS, P. A.
Studies of High-Rate Biological Treatment of Ipswich Sewage on Pilot Filters using Plastics Media,
W76-09029 9-17 5D

BANKS, R. B.
Distributions of BOD and Do In Rivers and Lakes,
W76-08743 9-16 5B

Some Features of Wind Action on Shallow Lakes,
W76-03380 9-07 2H

BANNAI, E.
Recent Trends of Process Control for Water Works and Drainage (Jogesuido purosesu seigyo no doko),
W76-09214 9-17 5G

BANNER, M. L.
Wave Breaking in the Presence of Wind Drift and Swell,
W76-09874 9-18 2L

BANNERMAN, R. R.
The Role of Groundwater in Rural Supplies in Ghana,
W76-06169 9-13 4B

BANNERMAN, R. T.
Phosphorus Mobility in Lake Ontario Sediments,
W76-11288 9-21 5B

A Simplified Phosphorus Analysis Technique,
W76-03705 9-08 5A

BANOV, A.
Effluent Yields Gypsum and Pure Water at Cyanamid's T102 Plant,
W76-02586 9-06 5D

BANUS, M.
Export of Lead from Salt Marshes,
W76-11717 9-22 5B

BAPTIST, G.
The Effect of Duration of Feeding, Amount of Food, Light Intensity, and Animal Size on Rate of Ingestion of Pelleted Food by Juvenile Penaeid Shrimp,
W76-01154 9-03 8I

BAPTIST, J. P.
Effects of Temperature, Copper and Chlorine on Fish During Simulated Entrainment in Power-Plant Condenser Cooling Systems,
W76-08878 9-17 5C

BAR-ADON, M.
Seed Germination, Respiration and Mitochondrial Efficiency of Three Alfalfa (Medicago Sativa L.) Cultivars Subjected to NACL Salinity,
W76-06264 9-13 3C

BAR-SHALOM, Y.
A Quantitative Method for Effluent Compliance Monitoring Resource Allocation,
W76-02269 9-05 5G

BAR YOSEF, B.
Combined Irrigation and Fertilization of Tomatoes Grown on Sand Dunes,
W76-13127 9-24 3C

BARABANOVA, N. M.
Quality of Potatoes Grown on Fields Irrigated with Wastewaters of Coal-Tar Chemical and Metallurgical Plants, (In Russian),
W76-12355 9-23 5C

BARABOLYA, P. D.
Problems in the Use of International Straits,
W76-12026 9-22 6E

BARADAS, M. W.
Great Plains Evapotranspiration by a Resistance Model Using Remotely Sensed Thermal Imagery,
W76-05179 9-11 2D

Resistance-Energy Balance Method for Predicting Evapotranspiration: Determination of Boundary Layer Resistance and Evaluation of Error Effects,
W76-08586 9-16 2D

Resistance-Mass Transfer Method for Estimating Evapotranspiration: Comparison with Lysimetric Measurements in Irrigated Sorghum,
W76-08588 9-16 2D

BARANAUSKENE, A. YU.
Development Aspects of Bacterial Flora Under Different Ecological Conditions, (In Russian),
W76-07284 9-14 5C

BARATT, M.
Ozone Contact System Fits into Tight Grit Chamber,
W76-03223 9-07 5D

Ozone Stifles Sewage Odors in Residential Areas,
W76-00210 9-01 5D

BARBA, D.
Multistage Flash Evaporator for Producing Soft Water from a Saline Water,
W76-05978 9-12 3A

BARBANTI, L.
An Ecologic Survey of Lake Endine, (In Italian),
W76-08244 9-16 5C

BARBARICK, K. A.
Percolation Tests for Septic Tank Suitability in Southern Arizona Soils,
W76-10248 9-19 5D

Percolation Tests for Septic Tank Suitability of Typical Southern Arizona Soils,
W76-01128 9-03 2G

BARBEE, W. B.
Measurement of Internal Waves of Tidal Frequency Near a Continental Boundary,
W76-02710 9-06 2L

BARBER, H. N.
Studies on Leaf Characteristics of a Cline of Eucalyptus Urnigera from Mount Wellington Tasmania: I. Water Repellency and the Freezing of Leaves,
W76-07403 9-14 2I

BARBER, R. T.
Biological Considerations,
W76-11484 9-21 6G

The Oceans as Ultimate Sinks for Wastewaters and Wastewater Residuals,
W76-03846 9-08 5E

BARBER, S. A.
Nitrogen Flux into Corn Roots as Influenced by Shoot Requirement,
W76-11519 9-21 3F

BARBIC, F. F.
Development of Iron and Manganese Bacteria in Ranney Wells,
W76-03761 9-08 5B

BARCHET, W. R.
Silver Iodide Aerosol Production by a Plated Hot-Wire Generator,
W76-02555 9-06 2B

BARCLAY, P. A.
Methods of Determining Areal Rainfall from Observed Data,
W76-04130 9-09 2B

Raindrop-Size Distributions in the Melbourne Area,
W76-01417 9-03 2B

BARD, C. C.
Silver in Photoprocessing Effluents,
W76-05732 9-12 5D

BARDEN, J. D.
Development of a Study Plan for Definition of PCBS Usage, Wastes, and Potential Substitution in the Investment Casting Industry,
W76-12713 9-24 5G

BARDHAN, M.
A Geophysical Method for Determination of Aquifer Parameters of Hard Rocks,
W76-00529 9-02 2F

BARDWELL, C.
Phenols in the Clark Fork River,
W76-03136 9-07 5B

BAREAU, C.
Elaboration and Use of a Mathematical Model to Forecast in Quantity and Quality, The Water Demands of Various Sectors of Industry,
W76-12562 9-23 6D

BAREFOOT, A. D.
Improvement of Water Application of Self-Propelled Sprinkler Irrigation Systems,
W76-00200 9-01 3F

BAREFOOT, B. B.
Sphincter Cone Assembly for Purifying Water,
W76-11839 9-22 5F

BARELA, D. A.
Supercritical Flow at Open-Channel Junctions; Hydraulic Model Investigation,
W76-12187 9-23 8B

BARELLI, M.
Incineration at Sea of Liquid Chlorinated Residues (In French),
W76-06746 9-13 5E

Use of A Trophodynamic Chain of the Benthic Type for the Study of Transfers of Metallic Pollutants, (In French),
W76-10944 9-20 5C

BARENBERG, E. J.
Evaluation of Pavement Drainage Systems Made of Layers of Open-Graded Bituminous Aggregate Mixtures,
W76-12456 9-23 8F

BARFIELD, B. J.
Analysis of the Sediment Filtering Action of Grassed Media,
W76-04009 9-09 4D

Critical Waste Problems Ahead,
W76-04423 9-09 5E

BARG, R.
State Regulatory Agencies and the Safe Drinking Water Act,
W76-05450 9-11 5G

BARGE, B. L.
The Degree of Common Orientation of Hydrometeors Observed by Polarization Diversity Radars,
W76-11745 9-22 2B

BARICA, J.
Collapses of Algal Blooms in Prairie Pothole Lakes: Their Mechanism and Ecological Impact,
W76-01655 9-04 5C

Electrochemical Detection of NH4 plus NH3 Systems in Water,
W76-01652 9-04 5A

Geography and Lake Morphometry of the Aquaculture Study Areain the Erickson-Elphinstone District of Southwestern Manitoba,
W76-01166 9-03 2H

Nitrogen, Phosphorus and Carbon Cycles in a Disturbed Eutrophic Ecosystem,
W76-01656 9-04 5C

Seasonal Mortality of Rainbow Trout (Salmo Gairdneri) Planted in Smalll Eutrophic Lakes of Central Canada,
W76 11179 9-21 5C

Summerkill Risk in Prairie Ponds and Possibilities of its Prediction,
W76-01653 9-04 5C

BARILE, R. G.
Turbulent Bed Cooling Tower,
W76-12847 9-24 5D

BARILOTTI, D. C.
Irradiance Reduction: Effects on Standing Crops of the Eelgrass, Zostera Marina in a Coastal Lagoon,
W76-10067 9-19 5C

BARKACS, K.
Ammonia Removal by Use of Clinoptilolite,
W76-09180 9-17 5D

Investigation of Phosphorus Removal from Water,
W76-04183 9-09 5D

BARKER, J. C.
Total Waste Management for a Large Swine Production Facility,
W76-07181 9-14 5D

BARKER, J. E.
Limestone Treatment of Rinse Waters from Hydrochloric Acid Pickling of Steel,
W76-01641 9-04 5D

BARKER, J. L.
Effects of Air Injection at Prompton Lake, Wayne County, Pennsylvania,
W76-05413 9-11 5G

BARKER, R. A.
Digital Model of the Gravel Aquifer, Walla Walla River Basin, Washington and Oregon,
W76-07593 9-15 2F

BARKER, R. D.
Some Hydrogeophysical Properties of the Bunter Sandstone of Northwest England,
W76-00413 9-01 2F

BARKER, R. G.
The Effect on Brightness Stability of Pulp Constitution and Water Quality,
W76-04221 9-09 5D

BARKER, W. H. JR.
Outbreaks of Waterborne Disease in the United States, 1971-1972,
W76-06138 9-12 5C

BARKHUDAROV, R. M.
The Principles of Substantiating Permissible Concentrations of Radioactive Substances in Freshwater Bodies, (In Russian),
W76-07275 9-14 5B

BARKLEY, J. J.
Water Pollution Sampler Evaluation,
W76-10261 9-19 5A

BARKLEY, W. A.
The Effects of a Synthetic Chili Waste on Biological Sewage Treatment Plant Operations,
W76-08845 9-17 5D

Reproducibility Evaluation of the Flocculation of a Synthetic Latex Colloidal System,
W76-12212 9-23 5D

Time Parameter Evaluation in Dual Flocculant Destabilization,
W76-12211 9-23 5D

BARKMAN, L. O.
Process for Purifying Papermaking Effluents (Verfahren zur Reinigung von bei der Papierherstellung anfallendem Abwasser),
W76-12505 9-23 5D

BARKS, J. H.
Water Resources of West-Central Missouri,
W76-03401 9-07 7C

BARLITT, H. R.
How to Get Good Samples by Rotary Drilling,
W76-09363 9-17 8G

BARLOW, J. P.
Utilization of Stream-Borne Phosphorus by Cayuga Lake Phytoplankton,
W76-11108 9-21 5C

BARLOW, W. R.
The Use of Waste Heat in a System for Animal Waste Conversion with By-Product Recovery and Recycling,
W76-01806 9-04 5D

BARMETTLER, E. R.
Cost of Producing Crops in the Irrigated Southwest: Part III - Nevada,
W76-00383 9-01 3F

BARMORE, C. R.
Antitranspirant Sprays Affecting Fruit Size of Early Amber Peaches,
W76-10725 9-20 3F

BARNARD, J. L.
Improvements in and Relating to Waste Water Treatment,
W76-12603 9-23 5D

BARNARD, J. R.
Physical and Economic Aspects Associated with Runoff from Urban Growth: A Methodological Approach,
W76-09749 9-18 4C

BARNES, D.
Interferences in the Electroanalytical Determination of Copper and Lead in Water and Waste Water,
W76-05045 9-11 5A

BARNES, I.
Geologic Map Showing Springs Rich in Carbon Dioxide or Chloride in California,
W76-00092 9-01 7C

BARNES, J. C.
Mapping Snow Extent in the Salt-Verde Watershed and the Southern Sierra Nevada Using Erts Imagery,
W76-02027 9-05 7B

Monitoring Arctic Sea Ice Using ERTS Imagery,
W76-02047 9-05 7B

BARNES, J. R.
The Effect of the Goshen Bay Dike on the Benthos of Utah Lake in Relation to Water Quality,
W76-04013 9-09 5C

The Reproductive Biology of the Leech Helobdella Stagnalis (L.) in Utah Lake, Utah,
W76-11826 9-22 2H

BARNES, R. B.
The Determination of Specific Forms of Aluminum in Natural Waters,
W76-00091 9-01 5A

BARNES, R. O.
N2:AR, Nitrification and Denitrification in Southern California Borderland Basin Sediments,
W76-04952 9-10 5B

BARNES, R. S.
The Effects of Waste Water Diversion on Heavy Metal Levels in the Sediments of a Large Urban Lake,
W76-08754 9-17 5B

BARNES, W. L. JR.
The Availability of Desalting for Water Supply from Saline Sources,
W76-11619 9-21 3A

BARNETT, A. H.
Henry George, Property Rights and Environmental Quality: Classical Answers to 'New' Problems,
W76-01614 9-04 5G

BARNETT, B. S.
A Technique for Fish Population Sampling in Dense Submersed Vegetation,
W76-04402 9-09 2I

BARNETT, M. I.
Laboratory Evaluation of the Coulter On-Line Particle Monitor,
W76-09699 9-18 5A

BARNETT, P. G.
HTPGB1: A Computer Program for Calculating from Experimental Data the Variation in Heat Transfer Coefficient Round a Cylindrical Surface,
W76-12687 9-24 7C

BARNETT, T. P.
Horizontal Scales of Midocean Internal Tides,
W76-02709 9-06 2L

BARNETT, W. A.
Treating Dye and Finishing Wastes,
W76-04789 9-10 5D

BARNWELL, T. O. R.
Application of Water Quality Models to Finger Fill Canals,
W76-09981 9-18 5B

BAROYAN, O. V.
Ecology of Cholera Vibrios, (In Russian),
W76-09409 9-18 5C

BARR, J. L.
Corrective Taxes for Pollution Control: An Application of the Environmental Pricing and Standards Systems to Agriculture,
W76-06618 9-13 5G

BARRACLOUGH, J. T.
Hydrologic Data for the Idaho National Engineering Laboratory Site, Idaho, 1971 to 1973,
W76-06447 9-13 5B

BARRACLOUGH, S. A.
Preliminary Studies on the Effect of Fatigue on Thermal Tolerance of Rainbow Trout,
W76-03475 9-07 5C

BARRADA, Y.
Radiation Equipment and the Principles Involved in its Use,
W76-01883 9-04 2G

Water Balance Studies,
W76-01882 9-04 3F

BARRANTI, L.
Hydrologic and Chemical Analysis of the Principal Piedmontese Tributaries of Lago Maggiore in Relation to its Trophic Modifications, (In Italian),
W76-09576 9-18 5C

BARRETT, A. C.
Superports: The Need Is Coming,
W76-12017 9-22 5G

BARRETT, B. B.
Distribution of Nutrients in Louisiana's Coastal Waters Influenced by the Mississippi River,
W76-05259 9-11 5B

BARRETT, C. B.
Quantitative Prediction of Seasonal Rating Curve Shifts,
W76-00026 9-01 2E

BARRETT, F.
Farm Effluent--Electrical Disposal Methods,
W76-00438 9-01 5D

BARRETT, R. J.
Woven Plastic Cloth Filters for Stone Seawalls,
W76-07230 9-14 8C

BARRIENTOS, C. S.
Great Lakes Wind Forecasts Based on Model Output Statistics,
W76-11434 9-21 2H

BARRINGER, A. R.
Remote Sensing of Marine Hydrocarbon Seeps,
W76-12411 9-23 5A

BARROIS, J. M.
Marine Ecology of the Northern Euboea: I. Preliminary Data on the Zooplankton and the Ichtyoplankton, (In French),
W76-08106 9-16 2L

BARRY, J. P.
Electrochemical Carbon Regeneration,
W76-00250 9-01 5D

BARRY, R. G.
Continental Ice Sheets: Conditions for Growth,
W76-04100 9-09 2C

Further Climatological Studies of Baffin Island, Northwest Territories,
W76-04259 9-09 2B

BARRY, W. F.
Effects of Shock Temperature on Biological Systems,
W76-09660 9-18 5C

BARSDATE, R. J.
The Nitrogen Balance of Arctic Tundra: Pathways, Rates, and Environmental Implications,
W76-08678 9-16 5B

BARTELS, H.
Cooling Tower Experience and the Meteorological Consequences of Thermal Discharges from Nuclear Power Plants in the Federal Republic of Germany,
W76-08855 9-17 5G

BARTELS, K. H.
My Waste-Handling System for Beef,
W76-03986 9-08 5G

BARTELT, G. E.
Plutonium Concentrations in Water and Suspended Sediment from the Miami River Watershed, Ohio,
W76-05887 9-12 5B

Plutonium in Aquatic Biota of the Great Miami River Watershed, Ohio,
W76-05888 9-12 5C

BARTH, C. L.
Feedlot Waste Recycling with a Flush Cleaning System,
W76-07170 9-14 5D

Survival of Salmonellae, Total Coliforms and Fecal Coliforms in Swine Waste Lagoon Effluents,
W76-07155 9-14 5D

BARTH, R.
The Constance Drinking Water Treatment Station-Model Studies And Operating Experiences (Die Konstanzer Trinkwasseraufbereitung-Modelluntersuchungen Und Betriebserfahrungen),
W76-01547 9-04 5F

BARTHA, R.
Biodegradation of Oil on Water Surfaces,
W76-11844 9-22 5G

BARTHOLIC, J. F.
Disposition of Water from Fruit Crops and Approaches to Increase Water use Efficiency,
W76-06807 9-14 2D

BARTHOLOMEW, W. S.
Ground-Water Levels, 1968-1972,
W76-00887 9-02 7C

BARTIK, I.
Marine Discharge Control Apparatus and Method for Treating Fluids on a Marine Vessel,
W76-06483 9-13 5G

BARTLETT, D.
Inventories of Delaware's Coastal Vegetation and Land-Use Utilizing Digital Processing of ERTS-1 Imagery,
W76-02037 9-05 7B

BARTLETT, H. D.
Animal Waste Contribution to Nitrate Nitrogen in Soil,
W76-07188 9-14 5B

BARTLETT, P. D.
Improved Methods for the Measurement of Dissolved and Particulate Organic Carbon in Fresh Water and Their Application to Chalk Streams,
W76-07428 9-14 5A

BARTLEY, T. R.
Acrolein Residues in Irrigation Water and Effects on Rainbow Trout,
W76-06563 9-13 5C

BARTOK, J. S.
California High Water, 1972-1973,
W76-01315 9-03 2E

California High Water, 1973-1974,
W76-01482 9-03 2E

BARTOLOTTA, R. J.
Resource Recovery: Possibilities and Pitfalls,
W76-08692 9-16 5D

BARTON, B. M. J.
Synthetic Monthly Run-Off Records for Ungauged British Catchments,
W76-08010 9-15 4A

BARTON, L. L.
Tropic Status of Selected Northern New Mexico Lakes,
W76-10808 9-20 5C

BARTON, N. G.
An Example of the Modification of Ocean Currents by Bottom Topography,
W76-10931 9-20 2L

BARTON, R. R.
UV-Ozone Oxidation/Sterilization Process,
W76-00243 9-01 5D

BARTSCH, A. F.
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W76-02451 9-05 5G

BARTSCH-WINKLER, S. R.
The Placer River Silt--An Intertidal Deposit Caused by the 1964 Alaska Earthquake,
W76-08560 9-16 2J

BARUS, V.
On some Problems of the Biological Control of Human Schistosomes in Egypt,
W76-06034 9-12 5C

Some Helminths of Bulinus Truncatus and Biomphalaria Alexandrina from the Irrigation System Near Cairo,
W76-06028 9-12 5A

BARWIS, J. H.
Annotated Bibliography on the Geologic, Hydraulic, and Engineering Aspects of Tidal Inlets,
W76-12999 9-24 2L

Shore Effect Model, Atlantic Generating Station; Hydraulic Model Investigation,
W76-07457 9-15 8B

BASCH, R. E.
Toxicity of Chlorinated Power Plant Condenser Cooling Waters to Fish,
W76-10896 9-20 5C

BASCO, D. R.
A Dispersion Curve Study of Model Dredge Spoil Basins,
W76-04321 9-09 5B

Feedback from Field Studies of Hydraulic Dredges,
W76-03122 9-07 8C

BASCOM, S. E.
Secondary Impacts of Transportation and Wastewater Investments: Research Results,
W76-02757 9-06 5C

BASCOPE, A. H.
Clarification Tank,
W76-10486 9-19 5D

BASHOO, D. Y.
Groundwater Resources of Altun-Kupri Area,
W76-06576 9-13 4B

BASKERVILLE, R. C.
Increasing the Capacity of Sedimentation Tanks by Means of Sloping Plates,
W76-09706 9-18 5D

A Solution to a Problem of Filter Cloth Blinding,
W76-07517 9-15 5D

BASKIN, C. C.
Responses of Astragalus Tennesseensis to Drought: Changes in Free Amino Acids and Amides During Water Stress and Possible Ecological Significance,
W76-07397 9-14 2I

BASKIN, J. M.
Responses of Astragalus Tennesseensis to Drought: Changes in Free Amino Acids and Amides During Water Stress and Possible Ecological Significance,
W76-07397 9-14 2I

BASOVA, S. L.
Chlorophyll a Content as an Index of Periphyton Productivity, Exemplified by Lake Krasnoe, (In Russian),
W76-06772 9-13 5A

BASS, W. C.
Performance Histories of Boiler Feedwater Plants Highlight the Advantages of Reverse Osmosis,
W76-02473 9-05 5D

BASSEET, R. A.
Purification of Industrial Waste Water,
W76-01721 9-04 5D

BASSI, A.
Reality and Prospects of the Fishing Industry in Italy,
W76-03279 9-07 3E

BASSIN, N. J.
Suspended Matter and the Stability of the Water Column: Central Caribbean Sea,
W76-03893 9-08 2L

BASU, A. K.
Advanced and Low-Cost Treatment of Pulp Mill Wastes (Traitement avance' et traitement couteux des eaux use'es de l' industie de la pate a papier),
W76-04768 9-10 5D

BAT', I. I.
Sanitary Inspection of Surface Waters Polluted with Aromatic Amino and Nitro-Compounds, (In Russian),
W76-09798 9-18 5A

BATANOUNY, K. H.
Eco-Physiological Studies on Desert Plants: IX. Types of Transpiration Curves of Zilla Spinosa Prantl Under Natural Conditions,
W76-06123 9-12 2D

Soil Properties as Affected by Topography in Desert Wadis,
W76-11196 9-21 2G

BATCH, D. L.
Additional Observations on the Effects of Strip Mining on Small-Stream Fishes in East-Central Kentucky,
W76-09468 9-18 5C

BATCHELDER, A. R.
Eutrophication of Microponds,
W76-08354 9-16 5C

BATCHELOR, J. S.
Anthracite Activated Carbons: Manufacture and Applications,
W76-12658 9-23 5D

BATCHELOR, R. A.
Household Technology and the Domestic Demand for Water,
W76-03278 9-07 6D

BATEMAN, R. L.
Evaluation of Geothermal Activity in the Truckee Meadows, Washoe County, Nevada,
W76-01683 9-04 5B

BATES, C. C.
Influx of Petroleum Hydrocarbons into the Ocean,
W76-09385 9-17 5G

BATES, R. E.
Ice Thickness Observations, North American Arctic and Subarctic, 1970-71, 1971-72,
W76-12182 9-23 2C

BATH, D. W.
Entrainment Studies on Hudson River Organisms,
W76-08633 9-16 5C

BATHALA,
Systematic Development of Methodologies in Planning Urban Water Resources for Medium Size Communities: Regional Aquifer Evaluation Studies with Stochastic Inputs,
W76-11176 9-21 6B

BATORA, V.
Results of Hygienic and Toxicological Studies of Pesticides in Countries of the Council of Mutual Economic Assistance in 1962-1972, (In Russian),
W76-09884 9-18 5G

BATTAERD, H. A. J.
Filtration Process,
W76-10473 9-19 5D

BATTARBEE, R. W.
Magnetic Susceptibility of Lake Sediments,
W76-03311 9-07 2J

BATTEKE, J. P. H.
Canadian Water Resources Information: A Network Approach,
W76-05952 9-12 10D

A Simulation Model for Long-Term Forecasting of Waste Loadings from Population, Land Use, and Economic Activities in the Great Lakes Basin,
W76-11320 9-21 5B

BATTERMANN, G.
Integrated Mathematical Models Used for Groundwater Resources Planning in Areas Influenced by Human Settlements,.
W76-12543 9-23 4B

BATTERSON, N. D.
Method for Irrigating Terrain,
W76-05021 9-11 3F

Weeper Irrigation Device,
W76-05022 9-11 3F

BATTJES, J. A.
Modeling of Turbulence in the Surf Zone,
W76-10432 9-19 2L

BATTY, J. C.
Energy Inputs to Irrigation,
W76-04566 9-10 3F

BATUTIS, E.
Shipboard Oil-in-Water Content Monitor Based on Small Angle Forward Light Scattering,
W76-13094 9-24 5G

A Study of the Effects of Detergents on Typical Bilge Waters and Correlation of Oil Particle Sizes,
W76-11939 9-22 5C

BATY, M. F.
The Terassperc-A Proposed Si Unit for the Frequency of Recurrence of a Hydrological Event,
W76-00297 9-01 7A

BAUBINAS, A. K.
Bacterial Contamination of Perennial Grasses in Overhead Irrigation with Sewage, (In Russian),
W76-08582 9-16 5D

Dynamics of the Purification of Domestic Fecal Sewage on Sewage Farms, (In Russian),
W76-07692 9-15 5D

BAUCHHENSS, J.
Experience with a Pilot Plant for the Irradiation of Sewage Sludge, Results on the Effect of Differently Treated Sewage Sludge on Plants and Soil,
W76-09551 9-18 5D

BAUDIN, J. P.
First Data on the Experimental Study of the Zinc Cycle in the Lagoon of L'Olivier, (In French),
W76-12310 9-23 5A

BAUER, A.
Plant Water Stress Criteria for Irrigation Scheduling,
W76-13024 9-24 2G

Spatial Variability of in Situ Unsaturated Hydraulic Conductivity of Maddock Sandy Loam,
W76-05670 9-12 2G

BAUER, D. P.
An Environmental Assessment of Impacts of Coal Development on the Water Resources of the Yampa River Basin, Colorado and Wyoming--Phase-II Work Plan,
W76-11500 9-21 5C

An Environmental Assessment of Impacts of Coal Development on the Water Sources of the Yampa River Basin, Colorado and Wyoming--Phase-1 Work Plan,
W76-10135 9-19 4C

Steady-State Segmentéd Dissolved-Oxygen Model,
W76-05855 9-12 5B

BAUER, H.
Energy Saving--An Important Consideration,
W76-09187 9-17 5A

Oxygen Measurement in Activation Basins with the Zuellig-02-Probe,
W76-08019 9-15 5A

BAUER, J.
Sludge Dehydration in Wastewater Treatment Plants of the Pulp and Paper Industry with Special Regard to the Double Filter Press (Schlammentwaesserung in Abwasserreinigungsanlagen der Zellstoff-und Papierindustrie unter besonderer Beruecksichtigung der Doppelsieb-Presse),
W76-00129 9-01 5D

Sludge Dewatering in Effluent Purification Plants of the Pulp and Paper Industry with Special Reference to the Twin-Belt Press (Schlammentwaesserung in Abwasserreinigungs- anlagen der Zellstoff-und Papierindustrie unter besonderer Beruecksichtigung der Doppelsiebpresse),
W76-00057 9-01 5D

LIBRARY OF THE URBANA-CHAMPAIGN

BAUER, S. W.
Design Flood Synthesis by Excess Rain Routing,
W76-08075 9-15 2A

BAUER, W. J.
Sewage Treatment Process,
W76-07435 9-14 5D

BAUGHMAN, M. L.
Energy Consumption and Fuel Choice by Residential and Commercial Consumers in the United States,
W76-09609 9-18 6A

Energy Systems: Modeling and Policy Planning,
W76-09608 9-18 6A

BAUM, R. L.
Oil Pollution Prevention,
W76-10772 9-20 5G

BAUMANN, D. D.
Coping with Flood Hazard in New Braunfels and Seguin, Texas,
W76-05502 9-12 6F

Professional Bias and Water Reuse,
W76-13096 9-24 5G

Reservoir Impact Study,
W76-04501 9-10 6B

BAUMANN, D. O.
An Evaluation of Water Reuse for Municipal Supply,
W76-00514 9-02 5D

BAUMANN, E. W.
Determination of Parts Per Billion Sulfide in Water with the Sulfide-Selective Electrode,
W76-06744 9-13 5A

BAUMANN, P. C.
Lake Wingra, 1837-1973: A Case History of Human Impact,
W76-05997 9-12 5C

BAUMANN, R. W.
Aquatic Macroinvertebrate Water Quality, and Fish Population Characterization of the White River, Uintah County, Utah,
W76-10821 9-20 6G

Studies for Wildlife on Energy Areas,
W76-10820 9-20 6G

BAUMEISTER, M.
Changes in Recirculated Water in a Paper Machine Over a Six Day Period (Veraenderungen im Kreislaufwasser einer Papiermaschine waehrend einer 6 Tage-Betriebsperiode),
W76-00053 9-01 5D

BAUMGARDNER, M. F.
Evaluation of Surface Water Resources from Machine-Processing of ERTS Multispectral Data,
W76-00833 9-02 5G

BAUMGARTNER, D. N.
An Underwater Temperature-Depth Data Collection Device,
W76-09727 9-18 2H

BAUMMER, J. C. JR.
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W76-11780 9-22 5G

BAUR, R. J.
An Experiment in the Mixed Culture of Channel Catfish and Largemouth Bass,
W76-01016 9-03 8I

BAVINA, L. G.
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W76-07078 9-14 2G

BAWDEN, C.
The Alert Bay Oil Spill: A One-Year Study of the Recovery of a Contaminated Bay,
W76-11463 9-21 5C

BAYER, A. G.
Filtration of Drainage Element,
W76-02838 9-06 4A

BAYLET, R.
Studies on the Activity of a Sodium Hypochlorite Solution on Vibrio Cholerae Biotype et tor for Drinking Water Sterilization,
W76-01465 9-03 5D

BAYLEY, R. W.
Review of Advanced Treatment Techniques for Waste Water,
W76-09159 9-17 5D

BAYNE, B. L.
Aspects of Physiological Condition in Mytilus Edulis L., with Special Reference to the Effects of Oxygen Tension and Salinity,
W76-10070 9-19 5C

BAYS, L. R.
Use of a Mobile Laboratory for Pollution Detection,
W76-00611 9-02 5A

BAZANT, Z. P.
Thermoviscoelasticity of Aging Concrete,
W76-00277 9-01 8F

BAZILEVICH, N. I.
Dynamics of Salts SiO2, R2O3, MnO and Water-Soluble Organic Matter in Underground Water, (In Russian),
W76-13043 9-24 5B

BAZZAZ, F. A.
Differing Sensitivity of Corn and Soybean Photosynthesis and Transpiration to Lead Contamination,
W76-00720 9-02 5B

BAZZAZ, M. B.
Effects of Cadmium Nitrate on Spectral Characteristics and Light Reactions of Chloroplasts,
W76-03318 9-07 5C

Effects of Lead Chloride on Chloroplast Reactions,
W76-03317 9-07 5C

BEACH, R. L.
Development of a High Seas Oil Recovery System, Appendix II,
W76-01835 9-04 5G

Development of a High Seas Oil Recovery System, Phase II, Appendix I. Design Studies and Specifications,
W76-01225 9-03 5G

Development of a High Seas Oil Recovery System, Phase II, Appendix II. Materials and Component Tests,
W76-01226 9-03 5G

Development of a High Seas Oil Recovery System, Phase II, Appendix III. System Tests,
W76-01227 9-03 5G

BEAL, G. S.
Operational Model for Predicting the Movement of Oil in Canadian Navigable Waters,
W76-09908 9-18 5B

BEAL, K.
Operational Model for Predicting the Movement of Oil in Canadian Navigable Waters,
W76-09908 9-18 5B

BEAL, R. E.
Water-Recycle Washing of Refined Soybean Oil: Plant Scale Evaluation,
W76-08171 9-16 3E

BEALL, R. M.
Guide to the Availability of Hydrologic Data, Greater Pittsburgh Region, Pennsylvania.
W76-12282 9-23 7C

Map Showing Selected Extreme-Streamflow Statistics and Drainage Areas, Greater Pittsburgh Region, Pennsylvania,
W76-11671 9-22 7C

Selected Streamflow Experience Graphs for Southwestern Pennsylvania,
W76-10132 9-19 7C

BEAMAN, D. R.
Quantitative Determination of Asbestos Fiber Concentrations,
W76-12899 9-24 5A

BEAMISH, R. J.
Long-Term Acidification of a Lake and Resulting Effects on Fishes,
W76-11178 9-21 5C

BEAN, R. M.
Oil Pollution Studies on Lake Maracaibo, Venezuela,
W76-00140 9-01 5A

Suspensions of Crude Oils in Sea Water: Rapid Methods of Characterizing Light Hydrocarbon Solutes,
W76-10393 9-19 5A

BEAR, J.
Forecasting Water Levels in Aquifers by Numerical and Semihybrid Methods,
W76-05686 9-12 2F

Identifying the Parameters of an Aquifer Cell Model,
W76-04555 9-10 2F

Method for Determining and Controlling Liquid Cooling System Characteristics.
W76-06484 9-13 5G

BEARD, J. B.
Environmental and Cultural Preconditioning Effects on the Water use Rate of Agrostis Palustris Huds., Cultivar Penncross,
W76-12723 9-24 2I

BEARD, K. V.
A Numerical Determination of the Efficiency with Which Electrically Charged Cloud Drops and Small Raindros Collide with Electrically Charged Spherical Particles of Various Densities,
W76-03108 9-07 2B

BEARD, L. R.
Stochastic Projections for Water Resources Planning,
W76-05012 9-11 6A

BEARD, M. L.
Sand Filter and Waste Stabilization Pond Test Shows Possibility for Treatment of Individual Wastewater Disposal,
W76-01738 9-04 5D

BEARD, T. W.
Observations on the Breeding and Growth of the Giant Freshwater Prawn Macrobrachium Rosenbergii (De Man) in the Laboratory,
W76-07971 9-15 8I

BEARDALL, J.
Effect of Environmental Factors on Photosynthesis Patterns in Phaeodactylum Tricornutum (Bacillariophyceae). I. Effect of Nitrogen Deficiency and Light Intensity,
W76-12942 9-24 5C

BEARDEN, H. W.
Hydrologic Data for 1974, Broward County, Florida,
W76-04979 9-10 7C

BEARDSELL, M. F.
Effects of Water Stress Under Contrasting Environmental Conditions on Transpiration and Photosynthesis in Soybean,
W76-11362 9-21 3F

Relationships Between Leaf Water Status, Abscisic Acid Levels, and Stomatal Resistance in Maize and Sorghum,
W76-01117 9-03 2I

Transpiration and Photosynthesis in Soybean: Effects of Temperature and Vapour Pressure Deficit,
W76-11407 9-21 3F

BEASLEY, D. B.
A Characterization of the Effluent from Commercial Catfish Ponds,
W76-01041 9-03 5A

BEASLEY, M. D.
Sampling Errors in the Quantification of Petroleum in Boston Harbor Water,
W76-10387 9-19 5A

BEASLEY, R. S.
Potential Effects of Forest Management Practices on Stormflow Sources and Water Quality,
W76-12173 9-23 5C

BEATLEY, J. C.
Climates and Vegetation Pattern Across the Mojave/Great Basin Desert Transition of Southern Nevada,
W76-02525 9-06 2I

Effects of Rainfall and Temperature on the Distribution and Behavior of Larrea Tridentata (Creosote-Bush) in the Mojave Desert of Nevada,
W76-02524 9-06 2I

BEATON, N. C.
Applications of Ultrafiltration to Textile Effluents,
W76-04792 9-10 5D

BEATY, C. B.
Sublimation or Melting: Observations from the White Mountains, California and Nevada, U.S.A.,
W76-05683 9-12 2C

BEAUCHAMP, E. G.
Nitrate Nitrogen Distribution in Corn Land Following Applications of Digested Sewage Sludge,
W76-03814 9-08 5B

BEAUCHAMP, H. E.
The Evaluation of Microbial Pathogens in Sewage and Sewage-Grown Fish,
W76-03545 9-08 5C

BEAVEN, T. R.
Water-Quality Data for Canals in Eastern Broward County, Florida, 1969-1974,
W76-11081 9-20 7C

BEAVER, J. A.
Problems of Public Works Projects in the Present Economic Climate,
W76-10980 9-20 6C

BEBECH, M. J.
Rapid Settler Apparatus,
W76-03509 9-08 5D

BEBIN, J.
Improvements to Processes for Purifying Effluents Originating from the Manufacture and Bleaching of Chemical or Semichemical Papermaking Pulps (Perfectionnement aux procedes d'epuration des effluents provenant de la fabrication et du blanchiment des pates a papier dites chimiques ou semi-chimiques),
W76-12498 9-23 5D

BEBIN, J. L.
Method of Biological Purification of Sewage,
W76-05524 9-12 5D

BECHAC, J. P.
Evaluation of Surface Water Pollution at Several Points in Relation to Zones of Shellfish Industry in Roadsteads of the Brest Region, (In French),
W76-06150 9-12 5B

Measurement of the Oxygenation Capacity in Waste Water Treatment Plants using Completely Mixed Activated Sludge (Mesure De La Capacite D'Oxygenation Dans Les Stations De Traitement A Boues Activees En Melange Integral),
W76-09006 9-17 5D

BECHTHOLD, J. L.
Fish Impingement at Monticello Nuclear Plant,
W76-07211 9-14 8I

BECK, A. D.
Development and Application of Criteria for Marine Cooling Waters,
W76-08885 9-17 5G

BECK, A. P.
A Laboratory Study on the Effects of the Exposure of Some Entrainable Hudson River Biota to Hydrostatic Pressure Regimes Calculated for the Proposed Cornwall Pumped Storage Plant,
W76-07496 9-15 5C

BECK, E. C.
The Basic Electric Cell in Effluent Treatment,
W76-03534 9-08 5D

BECK, M. B.
Dynamic Modelling and Control Applications in Water Quality Maintenance,
W76-11142 9-21 5G

BECK, R. E.
The Nature and Extent of Rights in Water in North Dakota,
W76-06378 9-13 6E

BECK, R. P.
A Preliminary Design for a National Environmental Census,
W76-10642 9-20 5A

BECK, T.
Experience with a Pilot Plant for the Irradiation of Sewage Sludge, Results on the Effect of Differently Treated Sewage Sludge on Plants and Soil,
W76-09551 9-18 5D

BECKAGE, M. J.
Field Studies on Ozone Inactivation of a Gymnodinium Breve Toxin,
W76-07099 9-14 5G

BECKER, C. D.
Aquatic Physiology of Thermal and Chemical Discharges,
W76-08880 9-17 5C

Food and Growth Parameters of Juvenile Chinook Salmon, Oncorhynchus Tshawytscha, in Central Columbia River,
W76-11411 9-21 2I

Resistance of a Northwestern Crayfish, Pacifastacus Leniusculus (Dana) to Elevated Temperatures,
W76-01907 9-04 5C

Resistance of Crayfish to Acute Thermal Shock: Preliminary Studies,
W76-03471 9-07 5C

BECKER, D. L.
Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Synthetic Resins Segment of the Plastics and Synthetic Materials Manufacturing Point Source Category,
W76-01209 9-03 5G

BECKER, J. D.
Regional Planning for Land Disposal of Wastewater,
W76-11706 9-22 5D

BECKER, L.
Operations Models for Central Valley Project,
W76-07237 9-14 4A

BECKER, R. J.
Non-Conservation in Arizona: Estimates of Some Costs,
W76-00191 9-01 4C

BECKER, V. E.
Nitrogen Fixation by Lichens of the Northern Piedmont,
W76-10327 9-19 5C

BECKETT, P. L.
Establishing Instream Flows: Analysis of the Policy-Making Process in the Pacific Northwest,
W76-11339 9-21 6B

BECKMAN, J. E.
Development of Assymmetric Cellulose Triacetate Membranes for Seawater Desalination,
W76-08283 9-16 3A

BECKWITH, R. A.
Infiltration Inflow Program for EPA Grants,
W76-00563 9-02 5D

BEDFORD, W. K.
Factors Affecting Activated Sludge Treatment of Kraft Bleachery Effluent,
W76-07684 9-15 5D

BEELIK, A.
Method for Treating Hemi Caustic Effluents,
W76-12495 9-23 5D

BEEMAN, O.
Specifications for Container Facilities by Simulation,
W76-09943 9-18 6A

BEER, C.
Kinetics and Control Tests of Nitrification-Denitrification Process, Part II: Respiration and Control Tests,
W76-09366 9-17 5D

Waste Treatment Apparatus,
W76-09432 9-18 5D

Waste Treatment Process,
W76-08978 9-17 5D

BEERS, J.
The Replication of Biological Events in Enclosed Water Columns,
W76-09226 9-17 5C

BEERS, J. R.
Microplankton of the North Pacific Central Gyre. I. Population Structure and Abundance, June 1973,
W76-08949 9-17 5C

The Replication of Biological Events in Enclosed Water Columns,
W76-08948 9-17 5C

BEESLEY, D. C.
Generalized Profiles of Wind Speed, Temperature and Humidity,
W76-11304 9-21 2H

BEESLEY, J. A.
Geography and the Los Debate: Protection of Coastal State Interests Versus the Preservation of International Interests,
W76-07344 9-14 6E

BEETON, A. M.
Effects of Chlorine and Sulfite Reduction on Lake Michigan Invertebrates,
W76-13113 9-24 5C

Sources of Water Quality, Lake Level, Ice, Water Temperature, and Meteorological Data for the St. Lawrence Great Lakes,
W76-11363 9-21 7C

BEGIN, E. E.
Improvements to New Bedford's Water Supply,
W76-00206 9-01 5F

BEGOVICH, C. L.
An Evaluation of Two Hydrograph Separation Methods of Potential Use in Regional Water Quality Assessment,
W76-12691 9-24 5G

BEHLE, W. H.
Raptor Study of Utah Oil Shale Area,
W76-10822 9-20 6G

Studies for Wildlife on Energy Areas,
W76-10820 9-20 6G

BEHNIA, M.
Laboratory Modeling of Thermal Structure in Stagnant Water,
W76-00199 9-01 2H

BEHNKE, J.
A Summary of the Biogeochemistry of Nitrogen Compounds in Ground Water,
W76-03358 9-07 5B

BEHRE, K.
The Algal Population of Duemmer Lake in the Years 1970/71, (In German),
W76-09812 9-18 5C

BEHRENS, H.
On the Water Channels of the Internal Drainage System of the Hintereisferner, Otztal Alps, Austria,
W76-07064 9-14 2C

BEHRENS, J. C.
Some Aspects of Modelling the Long-Term Behaviour of Aquatic Ecosystems,
W76-11883 9-22 5B

BEHRMAN, B. W.
Nitrogen Removal Depends on Form Nutrient Takes,
W76-10174 9-19 5D

BEINGESSNER, C. J.
Reduction of Toxicity of Aqueous Solutions,
W76-02992 9-06 5D

BEIRNE, P.
Influences of Some Freshwater Plants on the Development and Survival of Mosquito Larvae in British Columbia,
W76-06048 9-12 5G

BEIRUTE, R.
Expansive and Shrinkage Characteristics of Cements Under Actual Well Conditions,
W76-00390 9-01 8F

BEIRUTE, R. M.
How to Use the Computer to Get Better Cement Jobs,
W76-00036 9-01 8F

BEITENGER, T. L.
Behavioural Thermoregulation and Activity Patterns in the Green Sunfish, Lepomis Cyanellus,
W76-10883 9-20 5C

BEITINGER, T. L.
Body Temperature Change Characteristics of Lake Michigan Fishes,
W76-05899 9-12 5C

Low Thermal Responsiveness in the Bluegill, Lepomis Macrochirus,
W76-10369 9-19 5C

BEJDA, A. J.
The Effect of Temperature on the Behavior of Marine Fishes, a Comparison Among Atlantic Mackerel, Scomber Scombrus, Bluefish, Pomatomus Saltatrix, and Tautog, Tautoga Onitis,
W76-09507 9-18 5C

BEKIEV, K.
Evaporation from Highly Saline Soils in an Experimental Plot in the Turkmen SSR, (In Russian),
W76-09887 9-18 2D

BELAIRE, C. E.
Causes and Probably Correctives for Oxygen Depletion Fish Kills in the Dickinson Bayou Estuary: A Field Study and Simplified Algal Assay,
W76-08690 9-16 5C

BELARDI, J. G.
A Rational Approach to Decision Making in the Regionalization of Wastewater Treatment Systems,
W76-05251 9-11 5D

BELASCO, I. J.
Biodegradation of Methanolic Waste Water,
W76-05525 9-12 5D

BELAVSKAYA, A. P.
Production of Macrophytes of Some Lakes in the Pskov Region, (In Russian),
W76-03245 9-07 5C

BELCHER, C. R.
Pines on a High Salt Diet,
W76-00154 9-01 3C

BELK, T. E.
Treating Waste,
W76-01718 9-04 5D

BELL, A. V.
The Tailings Pond as a Waste Treatment Systems,
W76-04213 9-09 5D

BELL, C.
Anaerobic Digestion of Dairy Farm Slurry,
W76-02292 9-05 5D

BELL, D. E.
Variation of Urban Runoff Quality and Quantity with Duration and Intensity of Storms - Phase III, Volume 2, Impacts of Dust Storms,
W76-08279 9-16 2A

BELL, D. T.
Flood-Caused Tree Mortality Around Illinois Reservoirs,
W76-06027 9-12 4A

BELL, E. A.
The Availability of Ground Water for Irrigation in the Rice Lake-Eau Claire Area, Wisconsin,
W76-09348 9-17 4B

BELL, F. A. JR.
Emergency Supplies,
W76-03436 9-07 5F

BELL, H. F.
Gallium Arsenide Waste Treatment Method,
W76-07655 9-15 5D

BELL, J. M.
Administration - Systems Analysis, (Literature Review),
W76-12926 9-24 5G

Detergent Phosphate Ban Yields Little Phosphorus Reduction, Part I,
W76-03235 9-07 5A

Detergent Phosphate Ban Yields Little Phosphorus Reduction, Part I,
W76-05637 9-12 5C

Detergent Phosphate Ban Yields Little Phosphorus Reduction, Part II,
W76-06345 9-13 5G

Detergent Phosphate Ban Yields Little Phosphorus Reduction, Part III,
W76-06346 9-13 5G

Systematic Development of Methodologies in Planning Urban Water Resources for Medium Size Communities. Phase I. Final Report,
W76-11175 9-21 6B

BELL, M. C.
Fish Passage Through Turbines, Conduits, and Spillway Gates,
W76-08651 9-16 8I

BELL, M. W.
Efficiency-A World of Fantasy,
W76-13028 9-24 8G

BELL, R. G.
Handling Milking-Parlor Waste,
W76-00469 9-01 5D

Influence of NaCl, Ca2+, and Mg2+ on the Growth of a Marine Bdellovibrio sp.,
W76-01926 9-04 5C

Persistence of Fecal Coliform Indicator Bacteria on Alfalfa Irrigated with Municipal Sewage Lagoon Effluent,
W76-09217 9-17 5C

BELLA, D. A.
Tidal Flats in Estuarine Water Quality Analysis,
W76-02071 9-05 5C

BELLACK, E.
Fluoridation Engineering Manual,
W76-07031 9-14 5F

BELLAMY, D. J.
Pollution of the Mediterranean Around Naples,
W76-11713 9-22 5B

BELLASSAI, S. J.
Coating Fundamentals,
W76-00280 9-01 8G

BELLE,
Observations on the Effects of Crude Oil Pollution on the Sandy-Beach Snail, Bullia (Gastropoda:Prosobranchiata),
W76-11459 9-21 5C

BELLINGER, E. G.
Caesium-137: Its Accumulation in a Littoral Community,
W76-11808 9-22 5C

A Note on the Use of Algal Sizes in Estimates of Population Standing Crops,
W76-06043 9-12 5A

BELMAN, B. W.
Circulatory Adaptations to the Oxygen Minimum Layer in the Bathypelagic Mysid Gnathophausia ingens,
W76-09128 9-17 5C

BELOGUROV, V. P.
Application of Mathematical Modelling to Water Quality Formation Processes for Operative Management of Complex Water Resources Systems,
W76-12547 9-23 5G

BELON, A. E.
Application of ERTS Data to Resource Surveys of Alaska,
W76-02065 9-05 7C

BELOUSOVA, K. D.
Stabilizing the Purified Waters Generated by the Etching Shops for their Utilization in the Reverse Cycle (Stabilizatsiya ochishchennykh promyvnykh vod travil'nykh otdeleniy dlya ispol'zovaniya v oborotnom tsikle),
W76-02304 9-05 5D

BELSER, L. W.
Nitrate Reduction and Associated Microbial Populations in a Ponded Hanford Sandy Loam,
W76-08546 9-16 5G

BELSER, R.
Behavioral Impairment Produced by Exposure to Subclinical Amounts of Methylmercury Chloride,
W76-09037 9-17 5C

BELSHER, T.
Sequences of Effects of a City Sewer: As a Function of the Removal of the Source of Pollution, on the Photophile Populations Growing in Exposed Places (Algal Fraction); First Results, (In French),
W76-06770 9-13 5C

BELT, C. B. JR.
The 1973 Flood and Man's Constriction of the Mississippi River,
W76-00901 9-02 4A

BELT, G. H. JR.
Clearcutting and Burning Slash Alter Quality of Stream Water in Northern Idaho,
W76-02522 9-06 4A

BELTAOS, S.
The Bed-Load Function,
W76-06683 9-13 2J

Evaluation of Transverse Mixing Coefficients from Slug Tests,
W76-04685 9-10 2E

Oblique Impingement of Circular Turbulent Jets,
W76-10709 9-20 8B

Roughness Effects on Rectangular Free Overfall,
W76-11855 9-22 8B

BELTER, W. G.
Management of Waste Heat at Nuclear Power Stations, Its Possible Impact on the Environment, and Possibilities of its Economic Use,
W76-08849 9-17 5G

BELUCHE, R. A.
Effective Use of High Water Table Areas for Sanitary Landfill. Vol. II,
W76-05744 9-12 5G

BELYAEV, I.
Computer Assisted Procedures in Water Project Evaluation,
W76-01007 9-03 6A

Interbasin Transfer of Water Resources,
W76-07137 9-14 4A

BELYANIN, V. N.
Productivity and Biochemical Composition of Chlorella at Different Levels of Illumination and Nitrogen Limitation,
W76-05640 9-12 5C

BELZ, R. J.
Acid Treated Cationic Starch in the Flocculation and Dewatering of Sludge,
W76-11214 9-21 5D

BELZUNG, L. D.
Regional Response Through Port Development: An Economic Case Study on the McClellan-Kerr Arkansas River Project,
W76-02623 9-06 6B

BEN AIM, R.
Representation of Macroscopic Flow in an Aeration Basin by a Cascade Formed by Two Unequal Perfect Mixers (Representation De L'Ecoulement Macroscopic Dans un Bassin D'Aeration Par une Cascade De Deux Melangeurs Parfaits Inegaux),
W76-01778 9-04 5D

BEN ASHER, J.
Combined Irrigation and Fertilization of Tomatoes Grown on Sand Dunes,
W76-13127 9-24 3C

Measurement of Hydraulic Conductivity and Diffusivity for Predicting the Process of Soil Water Infiltration from a Trickle Source,
W76-04700 9-10 2G

BEN-DAVID, A.
A Combined Model for Operating Irrigated Agricultural Systems Under Uncertainties,
W76-09634 9-18 3F

BEN-DAVID, S.
A Socio-Economic Evaluation of Alternative Water Management Policies on the Rio Grande in New Mexico,
W76-06644 9-13 6B

BEN-YAAKOV, A.
An Improved in Situ pH Sensor for Oceanographic and Limnological Applications,
W76-12479 9-23 7B

BEN-YAMI, M.
Gnawing at Fishing Netting: A Problem in Cage-Raising of Herbivorous Fish,
W76-07970 9-15 8I

BENAYOUN, G.
Flux of Cadmium Through Euphausiids,
W76-02327 9-05 5C

BENDA, R. S.
Effects of Thermal Effluents on Fish and Invertebrates,
W76-02018 9-05 5C

BENDER, E. S.
Effects of Discharge from a Dredge Spoils Site on Carroll Island, Maryland,
W76-09647 9-18 5C

Preliminary Environmental Survey, Newport Army Ammunition Plant, Newport, Indiana, January, 1973,
W76-10056 9-19 5C

BENDER, J. A.
Trace Metal Levels in Beach Dipterans and Amphipods,
W76-00877 9-02 5A

BENDER, M.
Making the Most of Rotary Percussion Bits,
W76-00385 9-01 8C

BENDER, M. E.
Distribution of Copper and Zinc in Oysters and Sediments from Three Coastal-Plain Estuaries,
W76-10279 9-19 5C

Effect of an Oil Spill on Benthic Animals in the Lower York River, Virginia,
W76-10412 9-19 5C

Nitrogen, Phosphorus and Carbon Flux in Chesapeake Bay Marshes,
W76-06162 9-13 5C

BENDIXEN, S.
Device for Temporary Storage of Waste and Storm Water,
W76-04604 9-10 4A

BENEDEK, A.
Assessment of Polyelectrolytes for Phosphorus Removal,
W76-10492 9-19 5D

Laboratory Evaluation of Polymeric Flocculants,
W76-12898 9-24 5D

Use of Polyelectrolytes for Overload Clarifiers,
W76-03669 9-08 5D

Wastewater Sample Preservation,
W76-01772 9-04 5A

BENEDEK, P.
Common Fundamentals in the Technologies of Water and Wastewater Treatment, (A Viz-es Szennyviztitas Technologiaiajauak Kozos Alapjai),
W76-00561 9-02 5D

BENEDICT, B. A.
Evaluation of Mathematical Models for Temperature Prediction in Deep Reservoirs,
W76-02270 9-05 5B

BENEDOSSO, A.
Sewer Alarm System Saves Taxpayers' Dollars,
W76-08030 9-15 5D

BENEFIELD, L. D.
Design Procedure for a Contact Stabilization Activated Sludge Process,
W76-09211 9-17 5D

Estimating Sludge Production Aids in Facilities Design, Part II,
W76-03444 9-07 5D

Process Control by Oxygen-Uptake and Solids Analysis,
W76-03670 9-08 5D

BENENATI, S. R.
Recycling of Cooling Water in Cable Manufacture,
W76-05120 9-11 5D

BENEZECH, J.
Pollution Measurement in Electroplating (A Propos de la Mesure de la Pollution en Galvanoplastic),
W76-04038 9-09 5A

BENFIELD, E. F.
Eutrophic Gradient in Smith Mountain Lake, Virginia,
W76-05627 9-12 5C

BENFORD, H.
Economics of Great Lakes Bulk Carriers in Winter Operations,
W76-02384 9-05 6B

BENGTSSON, B. E.
Effect of Zinc on the Movement Pattern of the Minnow Phoxinus Phoxinus L.,
W76-03582 9-08 5C

BENJAMIN, C. T.
Sewage Treatment and Recycling System,
W76-05988 9-12 5D

BENKERT, W. M.
Chemical Hazards Response Information System, A Condensed Guide to Chemical Hazards,
W76-10047 9-19 5A

BENNER, B. L.
Improving Water Quality by control of Algae: Cellular and Extracellular Blue-Green Algal Polysaccharides,
W76-09760 9-18 5G

BENNER, J. E.
Colorimetric Determination of Paraquat Residues in Soil and Water,
W76-12149 9-22 5A

BENNER, R.
The Taking Issue: Potential Obstacle to natural Resource Management Legislation,
W76-06055 9-12 6E

BENNETT, A. C.
Soil Phosphorus Availability as Measured by Displaced Soil Solutions, Calcium-Chloride Extracts, Dilute-Acid Extracts, and Labile Phosphorus,
W76-00825 9-02 3C

BENNETT, D. H.
Growth and Condition of Juvenile Largemouth Bass from a Reservoir Receiving Thermal Effluent,
W76-03480 9-07 5C

BENNETT, J. A.
Oil Containment Boom,
W76-04602 9-10 5G

BENNETT, J. P.
Formulation and Use of Practical Models for River Quality Assessment,
W76-01006 9-03 5G

Formulation and use of Practical Models for River Quality Assessment,
W76-06209 9-13 5G

General Model to Simulate Flow in Branched Estuaries,
W76-01580 9-04 2L

A Recirculation System for Experimental Aquaria,
W76-07972 9-15 7B

BENNETT, L.
Effluent Detention Ponds Dechlorinate Wastewater,
W76-09678 9-18 5D

BENNETT, O. L.
Nitrogen Conservation Under Corn Planted in Quackgrass Sod,
W76-08541 9-16 3F

BENNETT, P.
An Integrated Study on the Impact of Metallic Trace Element Pollution in the Coeur D'Alene-Spokane Rivers-Lake Drainage System,
W76-11488 9-21 5C

BENNETT, R. B.
Sodium Sulfur Oxides Wastes Disposal Process,
W76-13143 9-24 5D

BENNETT, V. E.
A Possible Reaction of Atlantic Salmon (Salmo Salar) to Injected Chloramphenicol,
W76-01932 9-04 5C

BENNION, D. N.
Relative Transport Rates of Alakli Ion Across Cellulose Acetate Membranes,
W76-03960 9-08 3A

BENOIT, D. A.
Chronic Effects of Copper on Survival, Growth, and Reproduction of the Bluegill (Lepomis Macrochirus),
W76-01906 9-04 5C

Effects of Pollution on Freshwater Fish, (Literature Review),
W76-12735 9-24 5C

BENSLEY, A. A.
Steel Selected for Tight Effluent Line,
W76-01459 9-03 8G

BENSON, A.
Food Habits of Ictalurus Nubulosus in Acid Polluted Water of Northern West Virginia,
W76-02319 9-05 5C

BENSON, A. A.
Fates of Petroleum in the Sea: Biological Aspects,
W76-11017 9-20 5C

BENSON-EVANS, K.
Algal Communities in Polluted Rivers of South Wales,
W76-09107 9-17 5C

A Continuous Flow Apparatus for the Culture of Filamentous Green Algae,
W76-06244 9-13 5C

The Distribution of Stigeoclonium Tenue Kutz. In South Wales in Relation to its Use as an Indicator of Organic Pollution,
W76-07957 9-15 5B

Nutrient and Phytoplankton Studies of Llangorse Lake, A Eutrophic Lake in the Brecon Beacons National Park, Wales,
W76-01167 9-03 5C

BENSON, M. A.
Hydrologic Effects of Storms of June 24-28, 1974 in Lee and Collier Counties, Florida,
W76-11077 9-20 4A

BENSON, P. H.
Heat Treatment for the Control of Marine Fouling at Coastal Electric Generating Stations,
W76-04916 9-10 5C

BENSON, R. A.
Submersible Oil Boom,
W76-01131 9-03 5G

BENTEJAC, R.
Problem With Disposal of Paper Industry Effluents into the Sea (Probleme du rejet en mer des effluents de papeterie),
W76-04769 9-10 5A

BENTLEY, C. B.
Ground-Water Resources of American Samoa with Emphasis on the Tafuna-Leone Plain, Tutuila Island,
W76-02950 9-06 4B

BENTLEY, C. R.
Advances in Geophysical Exploration of Ice Sheets and Glaciers,
W76-05381 9-11 2C

BENTLEY, R. E.
Toxic Effects of Oil Discharged from Ships,
W76-12380 9-23 5C

NTLEY, T. L.
Application of Activated Sludge Design and Operation,
W76-10221 9-19 5D

NTON, W. W.
Apparatus for Conditioning Unlimited Quantities of Finished Waters for Enteric Virus Detection,
W76-12168 9-23 5A

ENZ, L. C.
Effect of Irrigation and Water-Table Depth on Crop Yields,
W76-00837 9-02 3F

ENZHITSKII, A. G.
Radioecologo-Biochemical Approach to the Study of the Cobalamine Cycle in the Ocean,
W76-06900 9-14 5C

EONIO-BROCCHIERI, F.
On the Calculation of the Mean Residence Time in Monomictic Lakes,
W76-10704 9-20 2H

ERAR, U.
Mathematical Model for Establishing the Overflow Spillway Discharges in the Flood Storage Ponds,
W76-01762 9-04 4A

ERCZIK, A.
The Designation of Two Ecological Groups of Aquatic Invertebrates, (In German),
W76-07286 9-14 2I

ERDIKULOV, I.
Effectiveness of Inorganic Fertilizers in Restoring Fertility of Irrigation-Eroded Soils, (In Russian),
W76-12785 9-24 3F

ERE, D.
Groyne Stabilization of Slope Movements and Toe Erosion, Lake Huron Near Bayfield, Ontario,
W76-11290 9-21 8B

EREANO, P. L.
A Proposed Methodology for Assessing Alternative Technologies,
W76-13049 9-24 6G

ERG, D. W.
An ERTS-1 Study of Coastal Features on the North Carolina Coast,
W76-13174 9-24 7B

ERG, G.
Effectiveness of Hypochlorous Acid and Hypochlorite Ion in Destruction of Viruses and Bacteria,
W76-00117 9-01 5F

Microbiology - Detection, Occurrence, and Removal of Viruses, (Literature Review),
W76-12896 9-24 5A

ERG, N. A.
Matching Resources and People,
W76-10723 9-20 6B

ERG, O. W.
Source Identification of Fuel Oil Spills,
W76-11314 9-21 5A

ERG, R. C.
Bluff Erosion, Recession Rates, and Volumetric Losses on the Lake Michigan Shore in Illinois,
W76-12686 9-24 2J

BERGEN, J. D.
A Possible Relation of Albedo to the Density and Grain Size of Natural Snow Cover,
W76-02704 9-06 2C

BERGENTHAL, J.
Kinetics and Control Tests of Nitrification-Denitrication Process, Part I: Kinetics,
W76-09365 9-17 5D

Kinetics and Control Tests of Nitrification-Denitrification Process, Part II: Respiration and Control Tests,
W76-09366 9-17 5D

BERGER, A. H.
Method of Control of Land and Water Uses in the Coastal Zone,
W76-11922 9-22 6E

BERGER, B. B.
Design A River Basin Sampling System,
W76-10131 9-19 5A

Reorientation of Urban Water Resources Research, Executive Summary,
W76-06554 9-13 6B

Reorientation of Urban Water Resources Research, Final Report,
W76-06553 9-13 6B

Strengthening Lake-Shoreland Management in Massachusetts,
W76-10264 9-19 6E

BERGER, D. M.
Coatings for Wastewater Treatment Plants,
W76-09014 9-17 8G

BERGER, H. F.
Development of Improved Procedures for Measurement of Mill Effluent and Receiving Water Color,
W76-00040 9-01 5A

BERGER, V. YA.
The Effect of Trematode Larval Infestation of Hydrobia Ulvae on Its Resistance to Drying and Water-Freshening, (In Russian),
W76-05421 9-11 5C

BERGER, W. H.
Coccolith Sedimentation by Fecal Pellets: Laboratory Experiments and Field Observations,
W76-08954 9-17 5C

BERGERON, T.
Mesometeorological Studies of Precipitation,
W76-13186 9-24 2B

BERGERSEN, E. P.
Multivariate and Sequential Statistical Procedures in the Biological Assessment of Water Quality,
W76-06561 9-13 5A

BERGMAN, D. L.
Ground-Water Records for Northeastern Oklahoma: Part 1--Records of Wells, Test-Holes, and Springs,
W76-11412 9-21 7C

BERGMAN, H. L.
Dieldrin and DDT: Accumulation from Water and Food by Lake Trout (Salvelinus Namaycush) in the Laboratory,
W76-11279 9-21 5C

BERGMAN, L.
Phosphorus Reduction with Bivalent Iron Sulfate at the Kappala Water Purification Plant, (In Swedish)
W76-12989 9-24 5D

BERGMANN, H.
On the Water Channels of the Internal Drainage System of the Hintereisferner, Otztal Alps, Austria,
W76-07064 9-14 2C

BERGMANN, J. M.
Evaluation of Effects of Land-use Changes on Streamflow,
W76-00657 9-02 4C

BERGSTEDT, L.
Flow Establishment and Initial Entrainment of Heated Water Surface Jets,
W76-00679 9-02 5B

BERGSTROM, G. I.
Effective Use of High Water Table Areas for Sanitary Landfill. Vol. II,
W76-05744 9-12 5G

BERGSTROM, S.
The Development of a Snow Routine for the HBV-2 Model,
W76-08338 9-16 2C

BERK, W. L.
How to Use and Select a Screw Pump,
W76-10681 9-20 8C

BERLAND, B. R.
The Importance of Inhibiting Substances in the Control of Algal and Bacterial Populations of Marine Plankton, (In French),
W76-11542 9-21 5G

BERLIN, A.
Quality Control and Harmonization Programmes for the Assessment of Effects and the Measurement of Environmental Pollution in the European Communities,
W76-11613 9-21 5G

BERLINER, P.
Fog Formation and Fog Elimination,
W76-08854 9-17 5G

BERMAN, T.
Amino Acid Uptake and Respiration by Marine Heterotrophs,
W76-08955 9-17 5C

Phosphorus, Nitrogen, and the Growth of Algae in Lake Kinneret,
W76-05633 9-12 5C

BERNADINER, M. N.
Flame Treatment of Waste Waters Containing Organic Chlorine and Sulfur Impurities,
W76-07508 9-15 5D

BERNATH, H.
Engineering Uses of EROS,
W76-11765 9-22 7B

BERNINGER, A.
Fluidized-Bed Filter in Ion-Exchanger Units (Das Schwebebettfilter Bei Ionenaustauscher-Anlagen),
W76-03993 9-08 5D

BERNOT, L.
A Lake Population: The Intha of Lake Inle. (Southern Shan States, Burma), (In French),
W76-09361 9-17 2H

BERNSTEIN, L.
Effects of Frequency of Sprinkling with Saline Waters Compared with Daily Drip Irrigation,
W76-00708 9-02 3C

Interactive Effects of Salinity and Fertility on Yields of Grains and Vegetables,
W76-00741 9-02 3C

BERNSTEIN, P. J.
Preparing to Take the Plunge (Atlantic Offshore Oil),
W76-12019 9-22 5G

BERNSTEIN, R. L.
Horizontal Scales of Midocean Internal Tides,
W76-02709 9-06 2L

BERNSTEIN, S.
Protein Production From Acid Whey Via Fermentation,
W76-04741 9-10 5D

BERQUIST, R. J.
Irrigation Efficiency in the Production of California Crop Calories and Proteins,
W76-10875 9-20 3F

BERRIEN, P. L.
A Description of Atlantic Mackerel, Scomber Scombrus, Eggs and Early Larvae,
W76-09656 9-18 2I

BERRY, E. E.
Experimental Burning of Waste Oil as a Fuel in Cement Manufacture,
W76-04177 9-09 5A

BERRY, J. C.
Design, Construction, and Field Test Evaluation of a Hollow Fine Fiber Module,
W76-03156 9-07 3A

BERRY, J. E.
The Facts of Life,
W76-02651 9-06 6B

BERRY, M. V.
Theory of Radio from Glacier Beds,
W76-05376 9-11 2C

BERRY, O. J.
Manure Ponds for Minimizing Pollution,
W76-07176 9-14 5D

BERRY, W. O.
Chronic Oil Contamination and Aquatic Organisms with Emphasis on Diptera: Status and Bibliography,
W76-11709 9-22 5C

BERSTEIN, R.
Scene Correction (Precision Processing) of ERTS Sensor Data Using Digital Image Processing Techniques,
W76-02066 9-05 7C

BERTELSEN, J. AA.
Systems Modeling of Stratified Fluids,
W76-09976 9-18 8B

BERTHELIN, J.
Influence of Waterlogging on Microbial Mineral Weathering, (In French),
W76-06730 9-13 5C

BERTINE, K. K.
The Deposition of Molybdenum in Anoxic Waters,
W76-05996 9-12 2K

N2:AR, Nitrification and Denitrification in Southern California Borderland Basin Sediments,
W76-04952 9-10 5B

BERTOGLIO RIOLO, C.
Oscillopolarographic Determination of Cyanide in Waste Electroplating Industrial Effluents,
W76-09822 9-18 5A

BERTOLDI, A.
Study on the Removal of Aromatic Hydrocarbons from Industrial Wastewaters by Means of Activated Carbon (Studio per la rimozione di idrocarburi aromatici da acqua di scarico industriali tramite carboni attivi),
W76-07758 9-15 5D

BERTRAND, G.
The Green Bay Watershed - Past/Present/Future,
W76-06569 9-13 5C

BERTRAND, J. E.
Agronomic and Cattle Studies with Municipal Liquid Digested Sludge,
W76-09367 9-17 5E

BERTRAND, R. M.
Pollution Problem Solver,
W76-08483 9-16 5D

BERTSCH, W.
Trace Analysis of Organic Volatiles in Water by Gas Chromatography-Mass Spectrometry with Glass Capillary Columns,
W76-03708 9-08 5A

BERVERIAN, G. A.
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W76-03187 9-07 7C

BERWART, G.
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W76-05721 9-12 5D

BERZINS, V.
Colour Measurement of Pulp Mill Effluents,
W76-09296 9-17 5A

BESCHTA, R. L.
A Method for Estimating Snowfall Amounts,
W76-06408 9-13 2C

Predicting Spring Streamflow In Central Arizona,
W76-02724 9-06 4A

Streamflow Hydrology and Simulation of the Salt River Basin in Central Arizona,
W76-02731 9-06 4A

BESLEY, H. E.
Report from New Jersey,
W76-04723 9-10 5G

BESSLER, M. B.
Salinity Control and Federal Water Quality Act,
W76-00617 9-02 5G

BEST, C. L.
Adjustable Full Spray Nozzle and Changes Required on Impulse Sprinklers to Accommodate Use of Nozzle,
W76-03503 9-08 3F

BEST, G. A.
Steroids in Effluents,
W76-09696 9-18 5A

BEST, G. R.
Cation Flux in Hardwood and White Pine Watersheds,
W76-10329 9-19 5B

BETHEA, R. M.
Techniques for Industrial Odor Control,
W76-03330 9-07 5D

BETHILL, C. D.
People's China and the Law of the Sea,
W76-05202 9-11 6E

BETSON, R. P.
Nonpoint Source Mineral Water Quality Model,
W76-02922 9-06 5B

BETTANDORFF, J. M.
Water for Industrial and Agricultural Development in Coahoma, De Soto, Panola, Quitman, Tate, and Tunica Counties, Mississippi,
W76-12798 9-24 3E

BETTERS, D. R.
A Timber-Water Simulation Model for Lodgepole Pine Watersheds in the Colorado Rockies,
W76-03167 9-07 4D

BETTERTON, C.
Studies on the Host Specificity of the Eyefluke Diplostomum Spathaceum, in Brown and Rainbow Trout,
W76-08302 9-16 5C

BETZER, P. R.
Light Scattering and Suspended Particulate Matter on a Transect of the Atlantic Ocean at 11 Deg N,
W76-03895 9-08 2L

Physical, Chemical, and Optical Measures of Suspended-Particle Concentrations: Their Intercomparisons and Application to the West African Shelf,
W76-03887 9-08 2L

BEUSELINCK, M. L.
Switching Value for Continuous Filtering Devices,
W76-00586 9-02 8C

BEWERS, J. M.
Trace Metals in the Waters of the Gulf of St. Lawrence,
W76-06024 9-12 5A

BEYAZ, Z.
Post-Tensioning System Repairs Old Digesters,
W76-07039 9-14 5D

BEYER, D. L.
Effects of Salmon Cannery Wastes on Water Quality and Marine Organisms,
W76-00861 9-02 5C

BEYER, J. E.
Some Aspects of Modelling the Long-Term Behaviour of Aquatic Ecosystems,
W76-11883 9-22 5B

BEYER, S.
Seasonal Variations in the Purification of Treatment Plant Effluent in Natural Sand Deposits,
W76-13121 9-24 5D

Water Renovation Using Deep Natural Sand Beds,
W76-01765 9-04 5D

EYERLE, G. B.
Contribution of Northern Pike Fingerlings Raised in a Managed Marsh to the Pike Population of an Adjacent Lake,
W76-03520 9-08 8I

EYERLEIN, D.
Bull Run Safe Yield Study,
W76-03792 9-08 4A

EYME, B.
Improved Procedure for Ion Exchange Experiments with Soils Using Leaching Tubes, and Handling of Water Repellent Soils, (In German),
W76-08762 9-17 2G

EZDICEK, D. F.
Effectiveness of Forest Buffer Strips in Improving the Water Quality of Manure Polluted Runoff,
W76-07189 9-14 5B

Influence of Organic Nitrogen on Soil Nitrogen, Nodulation, Nitrogen Fixation, and Yield of Soybeans,
W76-00157 9-01 3F

BHAGAT, S. K.
Study of Silver Lake Eutrophication--Current Problems and Possible Solutions,
W76-04568 9-10 5C

BHALERAO, B. B.
Treatment of Dairy Wastes by Mechanised Biological Methods,
W76-05174 9-11 5D

BHARGAVA, N.
Combined Dry/Wet-Cooling Towers: Their Environmental Promise and Their Problems,
W76-08852 9-17 5B

BHARGAVA, V. P.
Pressure Fluctuations in Submerged Jump,
W76-09265 9-17 8B

BHASIN, R. N.
Pore Size Distribution of Compacted Soils After Critical Region Drying,
W76-08416 9-16 2G

BHAT, I. S.
Seasonal Feature of Thermal Abatement of Shoreline Discharges at Nuclear Sites,
W76-08862 9-17 5G

BHATIA, O. P.
Use of Saline Water in Agriculture. I. Description of the System,
W76-10168 9-19 3C

BHATNAGAR, V. K.
Growth Response of Crops to Depth and Salinity of Ground Water, and Soil Submergence. I. Wheat (Triticum aestivum L.),
W76-00156 9-01 3C

BHATT, N. M.
Studies on Aerobic Cultivation of Yeast to Reduce Pollution Potential of Distillery Wastes,
W76-04228 9-09 5D

BHATTACHARYYA, D.
Precipitate Flotation of Calcium Sulfite from Dilute Aqueous Solution with an Anionic Surfactant,
W76-10631 9-20 5D

BHATTI, M. S.
Momentum Transfer in Hydrodynamically Developing Laminar Flow in a Straight Channel,
W76-08318 9-16 8B

BHOLE, A. G.
Measurement of Power Input in Flocculation,
W76-00608 9-02 5F

BHOWMIK, N. G.
Boat-Generated Waves in Lakes,
W76-05128 9-11 2H

Development of Criteria for Shore Protection Against Wind-Generated Waves for Lakes and Ponds in Illinois,
W76-04728 9-10 8B

Stilling Basin Design for Low Froude Number,
W76-00013 9-01 8B

BHUIYAN, A. L.
Limnoplankton of Some Inland Waters of Dacca City,
W76-09400 9-17 5C

BHUTANI, J.
Impacts of Hydrologic Modification on Water Quality,
W76-05866 9-12 5G

BHUTANI, J. S.
Wastewater Collection, (Literature Review),
W76-12631 9-23 5D

BIALAS, W. F.
Planning the Location and Capacity of Flood Control Structures,
W76-12156 9-23 4A

BIALY, K. J.
Radiation Treatment Method and Apparatus for Decontamination of Polluted Fluid,
W76-01136 9-03 5D

BIANCHI, W. C.
Hammer Seismic Timing as a Tool for Artificial Recharge Site Location,
W76-02556 9-06 4B

Powdered Metal Plates for Constructing Unsaturated Flow Cells,
W76-00840 9-02 2G

BIBBY, C. J.
Temperature and the Seasonal and Geographical Occurrence of Oiled Birds on West European Beaches,
W76-11823 9-22 5C

BIBKO, P. N.
Preliminary Studies on the Effects of Air Bubbles and Intense Illumination on the Swimming Behavior of the Striped Bass (Morone Saxitalis) and the Gizzard Shad (Dorosoma Cepedianum),
W76-08658 9-16 8I

BIDDLE, J. W.
Detection of Salmonellae in the Environment,
W76-05100 9-11 5A

BIDDLE, P.
The Effect of Polyacrylamide on the Settling of Thames Mud,
W76-09243 9-17 2J

Use of Surface-Active Chemicals in Pump-Ashore Schemes and Suction Dredgers,
W76-08747 9-16 8C

BIENFANG, P.
An Assessment of the Expected Impact of a Dredging Project Proposed for Pala Lagoon, American Samoa,
W76-06654 9-13 6G

BIENIARZ, K.
Ichthyofauna of Certain Rivers in Southern Poland,
W76-02405 9-05 5B

BIER, T. H.
Fiber Recovery Increases Water Reuse and Reduces Waste Treatment Costs,
W76-04224 9-09 5D

BIERI, R. H.
Identification of Hydrocarbons in an Extract from Estuarine Water Accomodated No. 2 Fuel Oil,
W76-10397 9-19 5A

BIERSDORF, G. T.
Retention of Metals in Sewage Sludge II: Incorporated Radioisotopes,
W76-10006 9-19 5A

BIESEL, F.
LCHF Coastal Sediment Modeling Techniques,
W76-10463 9-19 2L

Simulation Model of the Quantitative and Qualitative Evolution of Water Resources at Different Points of a River-Basin (Orne),
W76-12555 9-23 4A

BIESINGER, K. E.
Comparative Toxicity of Polyelectrolytes to Selected Aquatic Animals,
W76-05740 9-12 5C

Effects of Pollution on Freshwater Fish, (Literature Review),
W76-12735 9-24 5C

BIESZKIEWICZ, E.
The Effect of Some Carbon Substrates on Morphology of Flocs and Quantitative Relations Among Microorganisms in Activated Sludge,
W76-06302 9-13 5D

BIFFL, W.
Austrian Experiences Concerning Damages of Communal Purification Facilities by Industrial Effluents (Osterreichische Erfahrungen Betreffend Schaden an Kommunalen Klaranlagen Durch Industrieabwasser).
W76-08714 9-16 5D

BIGGAR, J. W.
Adsorption of Picloram (4-Amino-3,5,6-Trichloropicolinic Acid) on Panoche, Ephrata, and Palouse Soils: A Thermodynamic Approach to the Adsorption Mechanism,
W76-12142 9-22 5B

Determining the Hydraulic Conductivity of Soil Cores by Centrifugation,
W76-09256 9-17 2G

An Evaluation of the Accumulation, Translocation, and Degradation of Pesticides at Land Wastewater Disposal Sites,
W76-03871 9-08 5B

BIGGER, J. W.
Spatial Variability of the Leaching Characteristics of a Field Soil,
W76-07089 9-14 2G

BIGGS, G.
Deepsea Adventures: Grotius Revisited (Private Corp. Claim to Deepsea Mineral Rights),
W76-01966 9-04 6E

BIGNAZZI, R.
Influence of Temperature on Biological Purification of Paper Mill Effluent (Influenza della temperatura sulla depurazione biologica di un refluo di cartiera),
W76-05700 9-12 5D

BIJKER, E. W.
Mass Transport in Gravity Waves on a Sloping Bottom,
W76-12190 9-23 2L

BILDER, R. B.
The Settlement of International Environmental Disputes,
W76-11983 9-22 6E

BILELLO, M. A.
Ice Thickness Observations, North American Arctic and Subarctic, 1970-71, 1971-72,
W76-12182 9-23 2C

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W76-01505 9-04 5G

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Vertical Distribution of Nitrate Concentration in Interstitial Water of Marine Sediments with Nitrification and Denitrification,
W76-05678 9-12 5B

BILLINGSLEY, F. C.
Digital Image Enhancement Techniques Used in Some ERTS Application Problems,
W76-02068 9-05 7C

BILLS, T. D.
Toxicity of Potassium Permanganate to Fish and its Effectiveness for Detoxifying Antimycin,
W76-02323 9-05 5C

BIN'KOVSKII, S. F.
Intensification of Biological Purification of Effluents (Intensifikatsiya biologicheskoi ochistki stokov),
W76-11391 9-21 5D

BINDRA, K. S.
Rotating Disk Looks Promising for Plant Wastes,
W76-05337 9-11 5D

BINET, D.
Hydrocarbon Residues in Ivory Coast Waters,
W76-12579 9-23 5C

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W76-09828 9-18 2E

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W76-03404 9-07 5B

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W76-11610 9-21 5D

BINKS, A. E.
The Investigation of Ion Removal From Water and Wastewater,
W76-07060 9-14 5D

BINNIE, A. M.
Suppression of Waves in Slotted-Walled Channel,
W76-08742 9-16 8B

BINNING, C. D.
Interactions of Aqueous Chlorine with Activated Carbon,
W76-00114 9-01 5F

BINSON, B.
Views on River Basin Development in Thailand,
W76-05520 9-12 4A

BINZ, C. M.
Contents of Eleven Trace Elements in Ureilite Achondrites,
W76-09041 9-17 5A

BIRCH, F. S.
A Seismic Ground-Water Survey in New Hampshire,
W76-07086 9-14 2F

BIRCH, K. N.
Generalized Profiles of Wind Speed, Temperature and Humidity,
W76-11304 9-21 2H

BIRCHER, H.
The Swiss Federal Rating Station for Current Meters. The New Station of 1952,
W76-04327 9-09 9C

BIRD, A. W.
Advances in Wastewater Treatment in Melbourne: South Eastern System,
W76-00784 9-02 5D

BIRGE, W. J.
Sensitivity of Vertebrate Embryos to Heavy Metals as a Criterion of Water Quality, Phase III, Use of Fish and Amphibian Eggs and Embryos as Bioindicator Organisms for Evaluating Water Quality,
W76-05014 9-11 5C

BIRKEMEIER, W. A.
Nearshore Water Circulation Induced by Wind and Waves,
W76-10433 9-19 2L

BIRKS, C. W.
Treatment of Cheese Processing Wastes by the Bio-Disc Process,
W76-02438 9-05 5D

BIRNER, R. E.
Reclamation of Gas Turbine Waste Heat for Sludge Drying,
W76-11268 9-21 5D

BIRO, K.
Nematodes of Lake Balaton: IV. Seasonal Qualitative and Quantitative Changes,
W76-06004 9-12 5C

BIRTLES, A. B.
Mathematical simulation of Groundwater Abstraction from Confined Aquifers for River Regulation,
W76-00904 9-02 2F

BISCAN, N. J.
Optimizing A Petrochemical Waste Bio-oxidation System Through Automation,
W76-02503 9-06 5D

BISCAYE, P. E.
Variations in Benthic Boundary Layer Phenomena: Nepheloid Layer in the North American Basin,
W76-03891 9-08 2L

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W76-04215 9-09 5D

Development in the Application of Oxygen in the Activated-Sludge Process in the Federal Republic of Germany, (III).
W76-12670 9-23 5D

BISHNOI, O. P.
Assessment of Soil Moisture Storage from Rainfall and Its Utility in Rabi Crop Planning in Haryana State,
W76-07769 9-15 2G

Climatic Water Balance at Hissar,
W76-06041 9-12 2B

Probability Studies of Agricultural Water Management in Haryana State,
W76-07770 9-15 2D

BISHOP, A. B.
Capability of Integer Programming Algorithms in Solving Water Resource Planning Problems,
W76-05183 9-11 6A

Economic Assessment of an Activity Analysis Model for Water Supply Planning,
W76-03163 9-07 5D

Optimization of Water Allocation, Wastewater Treatment, and Reuse Considering Non-Linear Costs, Seasonal Variations, and Stochastic Supplies,
W76-02636 9-06 5D

Structuring Communications Programs for Public Participation in Water Resources Planning,
W76-01014 9-03 6A

Structuring Communications Programs for Public Participation in Water Resources Planning,
W76-05652 9-12 6B

Water as a Factor in Energy Resources Development,
W76-05250 9-11 6B

BISHOP, D. F.
Carbon, Nitrogen, and Phosphorus Removal in Staged Nitrification-Denitrification Treatment,
W76-01865 9-04 5D

Single Stage Nitrification-Denitrification,
W76-01866 9-04 5D

BISHOP, J.
Some Institutional and Conceptual Thoughts on the Measurement of Indirect and Intangible Benefits and Costs,
W76-11156 9-21 6B

BISHOP, R. P.
Development of a High Seas Oil Recovery System, Appendix II,
W76-01835 9-04 5G

BISHOP, S. E.
An Analysis of Dairy Waste Management Alternatives for Southern California Dairymen,
W76-10534 9-20 5G

On the Horns of the Dairy Waste Dilemma,
W76-05175 9-11 5D

BISSELL, H.
Coastal Zone Management: The Process of Program Development,
W76-05204 9-11 6B

BISSONNETTE, G. K.
Comparative Survival of Indicator Bacteria and Enteric Pathogens in Well Water,
W76-12194 9-23 5A

BISWANGER, K.
Device for Separating Liquids of Specifically Lower Density than Water, and Particularly Oil, from Water,
W76-11836 9-22 5G

BISWAS, A. K.
Mathematical Modelling and Environmental Decision-Making,
W76-11880 9-22 6G

BISWAS, H.
Phosphate Release and Sorption by Lake Mohegan Sediments,
W76-12512 9-23 5C

BISWAS, R. D.
Acidified Alum Sludge and Fly-Ash as Adjunct to Coagulatibn,
W76-00262 9-01 5F

Control of Surfactant Pollution,
W76-00273 9-01 5F

Studies on Use of Flyash in Conjunction with Alum for Coagulation of Turbid Water,
W76-00232 9-01 5F

BITCOVER, E. H.
Effect of Flocculants on the Sedimentation of Organic Solids in Tannery Unhairing Effluents,
W76-08164 9-16 5D

BITO, S.
A Study of the Quality of Silk Reeling Water in Regard to Solubility of Cocoon-Sericin, (In Japanese),
W76-11557 9-21 5B

BITTEL, R.
The use of a Pelagic Trophodynamic Chain for Studying the Transfer of Metallic Pollutants, (In French),
W76-00577 9-02 5B

Use of A Trophodynamic Chain of the Benthic Type for the Study of Transfers of Metallic Pollutants, (In French),
W76-10944 9-20 5C

BITTING, K. R.
High Seas Oil Containment Barrier Mooring System,
W76-12384 9-23 5G

BITTON, G.
High Gradient Magnetic Filtration of Magnetic and Non-Magnetic Contaminants from Water,
W76-07763 9-15 5D

BIXEL, J. C.
Tritium Effluent Control Project, Progress Report: April - June 1975,
W76-12782 9-24 5G

Tritium Effluent Control Project, Progress Report: January - March 1975,
W76-12780 9-24 5D

Tritium Effluent Control Project, Progress Report: July - September 1975,
W76-12779 9-24 5D

BIZZARRI, R. E.
Upgrading Primary Treatment with Chemicals and Water Treatment Sludge,
W76-06286 9-13 5D

BJARNASON, J. O.
The Acid-Bubbling Method for Primary Productivity Measurements Modified and Tested,
W76-06716 9-13 5A

BJERMO, G. H. E.
Method for Sludge Treatment,
W76-12410 9-23 5D

BLACK, A. L.
Dryland Cropping Sequences Within a Tall Wheatgrass Barrier System,
W76-11521 9-21 3F

BLACK, B.
Cost of Water Pollution Control in the Carpet Industry,
W76-12422 9-23 5G

BLACK, B. A.
Chemical Quality of Ground Water in the Northern Part of the Albuquerque-Belen Basin, Bernalillo and Sandoval Counties, New Mexico,
W76-03394 9-07 5B

BLACK, C. A.
Activated Carbon Fights Bad Taste,
W76-01553 9-04 5F

BLACK, J. A.
Sensitivity of Vertebrate Embryos to Heavy Metals as a Criterion of Water Quality, Phase III, Use of Fish and Amphibian Eggs and Embryos as Bioindicator Organisms for Evaluating Water Quality,
W76-05014 9-11 5C

BLACK, L. T.
Water-Recycle Washing of Refined Soybean Oil: Plant Scale Evaluation,
W76-08171 9-16 3E

BLACK, P. E.
Environmental Impact Statements in Planning Water and Related Land Resources,
W76-01333 9-03 6G

Hydrograph Responses to Watershed Model Size and Similitude Relations,
W76-00549 9-02 2A

BLACK, R.
Limited Arsenic Dispersion in Sea Water, Sediments, and Biota Near a Continuous Source,
W76-01262 9-03 5C

BLACK, R. D.
A Review and Analysis of Selected Hydrologic Modeling Concepts,
W76-09718 9-18 2E

BLACKBURN, T. R.
Mercury in Sediments of the Horwer Bucht (Lake Lucerne) and Tributary Streams, Switzerland,
W76-06136 9-12 5A

BLACKBURN, W. H.
Factors Influencing Infiltration and Sediment Production of Semiarid Rangelands in Nevada,
W76-05912 9-12 2G

Influence of Vesicular Horizons on Watershed Management,
W76-06596 9-13 4D

BLACKMAN, R. A. R.
Toxicity of Oil-Sinking Agents,
W76-11592 9-21 5C

BLACKSTONE, S. L.
Filter Belt Oil Recovery System,
W76-01222 9-03 5G

BLACKWELDER, P. L.
Effects of Calcium, Strontium and Magnesium on the Coccolithophorid Cricosphaera (Hymenomonas) Carterae. II. Cell Division,
W76-10079 9-19 5C

BLACKWELDER, R. L.
Effects of Calcium, Strontium, and Magnesium on the Coccolithophorid Cricosphaera (Hymenomonas) Carterae. I. Calcification,
W76-10078 9-19 5C

BLACKWELL, C. E.
How Now Brown Cow: Regulation of Feedlot Pollution In Wisconsin,
W76-03590 9-08 5G

BLAD, B. L.
Canopy Temperature Measurement of Sorghum and Millet with Leaf Thermocouple and Infrared Thermometer Techniques,
W76-08590 9-16 2D

Resistance-Energy Balance Method for Predicting Evapotranspiration: Determination of Boundary Layer Resistance and Evaluation of Error Effects,
W76-08586 9-16 2D

Resistance-Mass Transfer Method for Estimating Evapotranspiration: Comparison with Lysimetric Measurements in Irrigated Sorghum,
W76-08588 9-16 2D

Thermal Scanner Measurements of Crop Temperatures to Estimate Evapotranspiration,
W76-08591 9-16 2D

BLAD, K. L.
Great Plains Evapotranspiration by a Resistance Model Using Remotely Sensed Thermal Imagery,
W76-05179 9-11 2D

BLAEDEL, W. J.
An Investigation of Three Methods for the Determination of Sub-micromolar ion Concentrations in Water,
W76-11331 9-21 5A

BLAGUS, S.
Trace-Element Analysis Using X-Ray Emission Spectroscopy,
W76-09697 9-18 5A

BLAKE, G. J.
The Interception Process,
W76-04131 9-09 2I

BLAKE, G. R.
Effect of An Asphalt Barrier on Water Storage and Drought Probability,
W76-02872 9-06 3B

A Field Study of Soil Water Depletion Patterns in Presence of Growing Soybean Roots: I. Determination of Hydraulic Properties of the Soil,
W76-02933 9-06 2G

BLAKELEY, R. V.
Aerobic Photodegradation of FE(III)--Ethylenedineitrilo)Tetraacetate (Ferric Edta): Implications for Natural Waters,
W76-07096 9-14 5C

BLAKEY, A. W.
Design of Long Interceptor Sewers,
W76-01047 9-03 5D

BLANC, F.
Planktonic Ecosystems. The Effects of Dystrophic Conditions on Structure and Function in the Gulf of FOS (Ecosysteme Planctonique. Structure et Fonctionnement en Relation Avec des Phenomenes de Dystrophie (Golfe de Fos)),
W76-03658 9-08 5C

Planktonic Ecosystems: The Effects of Dystrophic Conditions on Structure and Function in the Gulf of Fos, (In French),
W76-08312 9-16 5C

BLANC, F. C.
Anaerobic Treatment of Leachate with High Sodium Concentrations,
W76-09641 9-18 5D

BLANCARD, A
Comparative Study of Poliovirus Concentration Methods From Water (Essais Comparatives De Methodes De Concentration Du Poliovirus aPartir Des Eaux),
W76-01444 9-03 5D

Disinfection of Urban Sewage Sludge (La Desinfection Des Bous Residuaires Urbaines),
W76-09007 9-17 5D

BLANCHAR, R. W.
Fragipan Stability in Soil-Plant Effluent Disposal Systems,
W76-11104 9-21 2G

Phosphate Determinations in Waters Using an Anion Exchange Resin,
W76-09370 9-17 5A

BLANCHARD, B. J.
Classifying Storm Runoff Potential with Passive Microwave Measurements,
W76-01306 9-03 7B

Investigation of Use of Space Data in Watershed Hydrology,
W76-08326 9-16 4A

Measuring Watershed Runoff Capability with ERTS Data,
W76-02031 9-05 7C

Results of Soil Moisture Flights During April 1974,
W76-13178 9-24 2G

BLANCHARD, D. C.
Bubble Tube: Apparatus for Determining Rate of Collection of Bacteria by Air Bubble Rising in Water,
W76-12492 9-23 5A

BLANCHARD, E. V. JR.
Water Pollution Control Act of 1972, Economic Impacts, Metal Finishing Industry,
W76-10556 9-20 5G

BLANCO, R. E.
Correlation of Radioactive Waste Treatment Costs and the Environmental Impact of Waste Effluents in the Nuclear Fuel Cycle for Use in Establishing 'As Low as Practicable' Guides--Appendix A. Preparation of Cost Estimates for Volume 1, Milling of Uranium Ores,
W76-06614 9-13 5D

Correlation of Radioactive Waste Treatment Costs and the Environmental Impact of Waste Effluents in the Nuclear Fuel Cycle for Use in Establishing as Low as Practicable Guides-Fabrication of Light-Water Reactor Fuels Containing Plutonium,
W76-12694 9-24 5C

BLANK, M. A.
Results of Salinity Tests on the San Francisco Bay-Delta Hydraulic Model,
W76-09978 9-18 2L

BLANKLEY, W. F.
Temperature Responses of a Coccolithophorid, Cricosphaera Carterae, Measured in a Simple and Inexpensive Thermal-Gradient Device,
W76-12764 9-24 5A

BLANTON, J. O.
Characteristics of Coastal Circulation Affecting the Transport and Dispersion of Material Released from the Nuclear Industry,
W76-09504 9-18 5C

BLASER, W. L.
Design Criteria--Waste Treatment Plants and Treatment of Sewer Overflow,
W76-00769 9-02 5D

BLATTER, H.
Temperature Measurement of Ice and Water Surfaces in the North Water Area Using an Airborne Radiation Thermometer,
W76-05389 9-11 7B

BLAU, G. E.
Bioconcentration of 2,2',4,4'-Tetrachlorobiphenyl in Rainbow Trout as Measured by an Accelerated Test,
W76-03766 9-08 5C

Mathematical Models Predict Concentration-Time Profiles Resulting from Chemical Spill in a River,
W76-05155 9-11 5B

BLAYLOCK, J. W.
Oil Pollution Studies on Lake Maracaibo, Venezuela,
W76-00140 9-01 5A

BLAZEY, D. R.
Legal Perspective on Water Quality Management,
W76-07221 9-14 5G

BLECHARCZYK, S. S.
Treating Waste,
W76-01718 9-04 5D

BLEDSOE, B. E.
Fate of Wastewater Phosphorus in Soil,
W76-03250 9-07 5B

Kinetic Model For Orthophosphate Reactions in Mineral Soils,
W76-02073 9-05 5D

BLEVINS, W. L.
Microbiological Studies of the Lagoonal Complex Surrounding KSC (Kennedy Space Center),
W76-01895 9-04 2L

BLEVITT, R.
Vertical Tube Distillation Desalting State-of-the-Art (1971),
W76-03154 9-07 3A

BLINN, D. W.
Investigation of Diatom Populations in Rhitron and Potamon Communities in Oak Creek, Arizona,
W76-02458 9-05 5A

BLOCH, M. R.
Countercurrent Flow Osmotic Processes for the Production of Solutions Having a High Osmotic Pressure,
W76-04185 9-09 3A

BLOCK, C. S.
Wastewater Treatment System with Controlled Mixing,
W76-09433 9-18 5D

BLOCK, J. C.
Problems Concerning the Character of Oxidizability of Certain Organic Substances in Water Treated with Ozone (Problemes lies A L'Evolution Du Caractere D'Oxydabilite De Certain Corps Organiques Presents Dans L'Eau Tratee Par L'Ozone),
W76-09692 9-18 5D

BLOCK, R. M.
Effects of Acute Cold Shock on the Channel Catfish,
W76-03468 9-07 5C

BLOCKWICK, T. H.
Development of a High Seas Oil Recovery System, Appendix II,
W76-01835 9-04 5G

BLOESCH, J.
Sedimentation and Phosphorus Balance in Lake Lucerne (Horw Bay) and in the Rotsee, (In German),
W76-09790 9-18 5C

BLOGOSLAWSKI, W. J.
Field Studies on Ozone Inactivation of a Gymnodinium Breve Toxin,
W76-07099 9-14 5G

BLOK, J.
Methods for Measurement of Biodegradability of Chemical Compounds,
W76-09599 9-18 5C

BLOMQUIST, A.
Seasonal Effects on Ground-Wave Propagation in Cold Regions,
W76-05392 9-11 7B

BLOODGOOD, T. W.
Treatment of Animal Wastes at the Greenfield Laboratories of Eli Lilly and Company,
W76-00464 9-01 5D

BLOSSER, R. O.
A Summary of Receiving Water Dissolved Oxygen Conditions below Pulp and Paper Mill Locations,
W76-12480 9-23 5B

BLOUGH, D.
Evaluation of In-Line and Side-Line Flow Equalization Systems,
W76-06348 9-13 5D

BLOWS, D. G.
Waste Treatment Plants,
W76-09427 9-18 5E

BLOYD, R. M. JR.
Summary Appraisals of the Nation's Ground-Water Resources--Upper Mississippi Region,
W76-02141 9-05 6B

LUESTEIN, M. H.
Response of South Platte to Effluent Limitations,
W76-11137 9-21 5B

LUMBERG, R. E.
Mesoscale Spatial and Temporal Variations of Water Mass Characteristics in the California Current Region off Monterey Bay in 1973-1974,
W76-12386 9-23 2L

LUMER, M.
Polycyclic Aromatic Compounds in Nature,
W76-10865 9-20 5B

LYTHE, W. D.
Applicability of the Technicon Autoanalyzer I and II Systems for Shipboard Analysis of Great Lakes Water Samples,
W76-10497 9-19 5A

LYUMBERG, M. Y.
Sanitary and Hygienic Evaluation of the Water of the Uzhgorod Water Supply System, (In Russian),
W76-12313 9-23 5A

OAR, P. L.
Trace Metals in Melbourne Rivers-An Interlaboratory Analysis,
W76-01770 9-04 5A

BOARDMAN, E. B.
Ims-Grangcold Pelletizing System for Steel Mill Wastes Material,
W76-08491 9-16 5D

BOARI, G.
Selective Renovation of Eutrophic Wastes Phosphate Removal,
W76-10026 9-19 5D

BOAST, C.
A Simulation Model of Biophysiochemical Transformations of Nitrogen in tile-Drained Corn Belt Soil,
W76-08761 9-17 5B

BOATWRIGHT, B. A.
The Occurrence and Development of Guest Sink, Hernando County, Florida,
W76-00296 9-01 4B

BOBALEK, E. G.
Continued Studies (Phase II) in the Search for A Predictive Model for Sludge Characterization Useful to Design and Control of Sludge Dewatering Processes in Water Recycle Systems,
W76-11116 9-21 5D

BOBB, W. H.
Mobile Bay Model Study: Effects of Proposed Theodore Ship Channel and Disposal Areas on Tides, Currents, Salinities, and Dye Dispersion,
W76-07467 9-15 8B

BOBEE, B.
Analysis and Management of Water Distribution Systems,
W76-02718 9-06 4A

Correction of Bias in the Estimation of the Coefficient of Skewness,
W76-05910 9-12 2E

The Log Pearson Type 3 Distribution and its Application in Hydrology,
W76-02701 9-06 2E

Pre-Impoundment Site Preparation: A Study of the Effects of Topsoil Stripping on Reservoir Water Quality,
W76-09117 9-17 4C

BOBER, R. W.
Ozonation of Photographic Processing Wastes,
W76-01667 9-04 5D

BOBINSKI, E.
A Mathematical Model for Forecasting the Flow of the Sola River,
W76-00298 9-01 2A

BOBLITT, G. T.
The Harvesting of Algae as a Food Source from Wastewater Using Natural and Induced Flocculation Techniques,
W76-03571 9-08 5D

BOBOVNIKOVA, T. I.
On Sr90 Migration in Land Fresh Water,
W76-06864 9-14 5B

BOBOVSKAYA, L. P.
Effect of Phenols and their Oxidation Products on Aquatic Plants and Content of Sulfhydryl Groups in Them, (In Russian),
W76-05276 9-11 5C

BOCHINSKI, J. H.
Shipboard Oil-In-Water Content Monitor Based on Light Scattering at Ninety Degrees,
W76-04926 9-10 5A

BOCHY, B. M.
Results of Phytoplankton Sampling at National Stream Quality Accounting Network Stations in Montana--1975 Water Year,
W76-09146 9-17 5A

BOCK, P.
Role of Synthetic Time Series in Hydrometeorological Data Analysis,
W76-00891 9-02 2A

The Use of ERTS Imagery in Reservoir Management and Operation,
W76-08537 9-16 4A

BOCSOR, J. G.
Environmental Changes in a Portion of Lake Ontario Following Pollution Abatement,
W76-09119 9-17 5C

BODA, J. O.
Overland Flow Treatment of Swine Manure Lagoon Effluent,
W76-06808 9-14 5D

BODDEKE, R.
Autumn Migration and Vertical Distribution of the Brown Shrimp Crangon Crangon L. in Relation to Environmental Conditions,
W76-10073 9-19 5C

BODENHEIMER, V. B.
Waste Treatment Variables for Kraft Mills,
W76-00052 9-01 5D

BODINE, A. B.
A Survey of Effects of Animal Wastes on Stream Pollution from Selected Dairy Farms,
W76-03974 9-08 5B

BODY, D. N.
Empirical Methods and Approximations in the Determination of Catchment Response,
W76-04141 9-09 4A

BOEHLER, T.
Subtidal Marine Biology of California, with Emphasis on the South,
W76-06023 9-12 2L

BOEHM, J.
Engineering Methods of Process Solutions in the Treatment of Tannery Effluents,
W76-07505 9-15 5D

BOEHMKE, S.
Experience with the Determination of the Biochemical Oxygen Demand With Special Consideration of the Modified 'Viehl Dilution Method, (Erfahrungen Mit Der Bestimmung Des Biochemischen Sauerstoffebedarfs Unter Besonderer Beruecksightigung Der Modifizierten Viehl 'Schen Verduennungsmethode),
W76-01442 9-03 5D

BOEN, D. F.
Reverse Osmosis of Treated and Untreated Secondary Sewage Effluent,
W76-03351 9-07 5D

Reverse Osmosis of Treated and Untreated Secondary Sewage Effluent; Appendix A-2 and Appendix A-6,
W76-07061 9-14 5D

BOERICKE, R. R.
The Helical Bend Combined Sewer Overflow Regulator,
W76-07246 9-14 5D

BOERSMA, L.
Swine Waste Nutrient Recovery System Based on the Use of Thermal Discharges,
W76-07179 9-14 5D

Water and Food Production Demands,
W76-09237 9-17 6D

BOERSMA, L. E.
The Use of Waste Heat in a System for Animal Waste Conversion with By-Product Recovery and Recycling,
W76-01806 9-04 5D

BOES, R. J.
Automated Forecast Procedures for River Quality Management,
W76-10664 9-20 5A

BOESCH, B. E.
Pollution Abatement Systems for Farm Animal Wastes in Southeast Michigan,
W76-11057 9-20 5D

BOESCH, D. S.
Biological Effects of Chronic Oil Pollution on Coastal Ecosystems,
W76-11019 9-20 5C

BOESCHE, D.
In Regard to the Question of the Determination of Heavy Metals in River Waters with the Aid of Radionuclide X-Ray Fluoresence Analysis, (In German),
W76-06619 9-13 5A

BOETTGER, K.
Studies on the Productivity of the Kalen-Go-Stream in Central Africa, (In German),
W76-12324 9-23 5C

BOGAN, J.
PCB Levels in Clyde Marine Sediments and Fauna,
W76-11589 9-21 5B

BOGAN, J. A.
Seabird Mortality in the North Irish Sea and Firth of Clyde Early in 1974,
W76-11727 9-22 5C

BOGARDI, I.
Economic Uncertainties in Water Resources Project Design,
W76-12514 9-23 6A

Levee System Reliability Along a Confluence Reach,
W76-03383 9-07 8B

Release Control Policy for a Large Lake Subject to Wind Waves,
W76-06421 9-13 4A

Uncertainty in Water Resources Decision Making,
W76-05513 9-12 6A

BOGATSKII, M. A.
Gas-Liquid Chromatographic Determination of Butyl Acetate, Butanol and Acetone Present Together in Waste Waters, (In Russian),
W76-09929 9-18 5A

BOGDANOV, N. I.
Brief Microbiological Characterization of the Kayrakkum Reservoir, (In Russian),
W76-07941 9-15 5C

BOGDANOVSKAYA-GIENEF, I. D.
Aquatic Vegetation of the USSR, (In Russian),
W76-02848 9-06 2I

BOGEDAIN, F. O.
Two Trillion or Three: The Cost of Water Quality Goals,
W76-07686 9-15 5G

BOGER, K. S.
The Common Law of Public Nuisance in State Environmental Litigation,
W76-06488 9-13 6E

BOGGESS, D. H.
Effects of a Landfill on Ground-water Quality,
W76-10137 9-19 5B

BOGGS, S. JR.
Seasonal Reversal of Flood-Tide Dominant Sediment Transport in a Small Oregon Estuary,
W76-07783 9-15 2L

BOGH, P.
Combined Dry/Wet-Cooling Towers: Their Environmental Promise and Their Problems,
W76-08852 9-17 5B

Experience with Combined Wind Tunnel-Plume Model Analysis of Cooling-Tower Environmental Impact,
W76-04815 9-10 5B

BOGOEV, S.
Foam Formation in Plants for Biological Purification of Effluents from the Manufacture of Kraft Pulp (Penoobrazuvaneto v stantsiite za biologichno prechistvane naotpad' chite vodi ot proizvodstvoto na sulfatnatseluloza),
W76-10833 9-20 5D

Purification of Effluents from the Manufacture of Semichemical Pulp (V'rkhu prechistvaneto na otpadchnite vodi ot proizvodstvoto na polutseluloza),
W76-02479 9-05 5D

BOGOMOLOV, B. D.
Polarographic Determination of Dimethyl Disulfide and Methyl Mercaptan in Aqueous Solutions Containing both (Opredelenie metilmerkaptana i dimetildisul'fida v vodnykh rastvorakh pri ikh sovmestnom pristustvii polyarograficheskim metodom),
W76-00054 9-01 5A

BOGOMOLOV, G. V.
Analogous Modelling of Aquiferous Systems in Coastal Zones,
W76-10455 9-19 2L

BOGOMOLOV, Y. G.
Analogous Modelling of Aquiferous Systems in Coastal Zones,
W76-10455 9-19 2L

BOGUCHARSKOV, V. T.
Bottom Deposits of the Kuban Deltaic Limans, (In Russian),
W76-09935 9-18 2L

BOGUSZ, F. J.
Recirculating Sewerage System,
W76-10209 9-19 5D

BOHAN, J. P.
Combined Use of Physical and Mathematical Models for Analysis of Reservoir Water Quality,
W76-10439 9-19 5B

BOHLEN, W. F.
An Investigation of Suspended Material Concentrations in Eastern Long Island Sound,
W76-06381 9-13 2L

BOHM, J.
Water Quality Aspects of Tannery Effluents Disposal,
W76-01645 9-04 5D

BOHMEKE, S.
Experiences with BOD Determinations, with Special Consideration of the Modified Viehl Dilution Method (Erfahrungen mit der Bestimmung des biochemischen Sauerstoffbedarfs unter besonderer Beruecksichtigung der modifizierten Viehl'schen Verduennungsmethode),
W76-02461 9-05 5A

BOHN, A.
Arsenic in Marine Organisms from West Greenland,
W76-11962 9-22 5C

BOIKO, K.
Super Teamwork gives Green Bay (Wisconsin) a Super Waste Treatment Plant,
W76-05706 9-12 5D

BOJANOWSKI, R.
A Procedure for Analysis of Amercium in Marine Environmental Samples,
W76-08611 9-16 5A

BOJBASA, M.
Chemical Analyses of Water of Sasko Lake: A Contribution to the Limnological Investigations of the Lake, (In Serbo-Croatian),
W76-04574 9-10 5A

BOKAREV, K. S.
Detoxication in Plants of Toxic Substances from Industrial Sewage Used for Irrigation, (In Russian),
W76-11567 9-21 5C

BOKHARI, S. M. H.
Ex-Post Evaluation of River Basin Developments in Pakistan,
W76-05748 9-12 6A

Management of Water Resources Under Different Socio-Economic Conditions,
W76-11514 9-21 6B

Management of Water Resources Under Different Socio-Economic Conditions,
W76-12626 9-23 6B

BOLAND, R. A.
Mobile Bay Model Study: Effects of Proposed Theodore Ship Channel and Disposal Areas on Tides, Currents, Salinities, and Dye Dispersion,
W76-07467 9-15 8B

BOLDUC, P-A.
Point Petre Storm Surges Simulation,
W76-11303 9-21 2H

BOLDUC, P. R.
Groundwater Pollution From Sanitary Landfill Leachate, Oahu, Hawaii,
W76-02733 9-06 5A

BOLER, L. J.
Combination Sewage Treatment and Cooling System,
W76-08242 9-16 5D

BOLGER, B. J.
Treatment of Floating Pollutants,
W76-03508 9-08 5G

BOLIER, G.
The Toxicity of the Herbicide Dichlobenil to Goldfish (Carassius Auratus),
W76-11188 9-21 5C

BOLKE, E. L.
Chemical Quality and Temperature of Water in Flaming Gorge Reservoir, Wyoming and Utah, and the Effect on the Reservoir on the Green River,
W76-05417 9-11 2H

BOLLEN, W. B.
Effect of Cacodylic Acid and MSMA on Microbes in Forest Floor and Soil,
W76-05940 9-12 5C

Soil Microbes,
W76-05935 9-12 2G

BOLLING, A.
Sedimentation-Flotation (Sedimentation-Flotation),
W76-02948 9-06 5D

BOLLY, L.
Purification of Food Industry-Generated Wastewaters. Technical and Scientific Aspects of the Alternative: Individual or Collective Treatment (Epuration Des Eaux Residuaires Des Industries Alimentaires. Aspects Techniques et Scientifiques De L'Alternative: Traitment Individuel ou Collectif),
W76-03082 9-07 5D

BOLSENGA, S. J.
Eastern Lake Ontario Precipitation Network,
W76-08412 9-16 2B

Estimating Energy Budget Components to Determine Lake Huron Evaporation,
W76-02425 9-05 2D

Lake Huron Surface Water Temperature, May-November, 1966,
W76-08141 9-16 2H

BOLT, B. A.
Seismic Instrumentation of Dams,
W76-05667 9-12 8D

BOLT, G. H.
Evidence for New Aluminum Phosphate Phase from Reaction Rate of Phosphate with Aluminum Hydroxide,
W76-06295 9-13 5E

BOLTER, E.
Geochemical Impact on Lead-Mining Wastewaters on Streams in Southeastern Missouri,
W76-02897 9-06 5C

Water Resources Problems and Solutions Associated with the New Lead Belt of S.E. Missouri,
W76-06948 9-14 5G

BOLTROMEYUK, L. P.
The Significance of Diisocyanate Stability in Water in Hygienic Standardization, (In Russian),
W76-03648 9-08 5B

BOMBOWNA, M.
Some Carpathian Reservoirs and Their Production Relations,
W76-01175 9-03 5C

BOMMARITO, J. J.
Development of a Prototype Airborne Oil Surveillance System, Final Report,
W76-09898 9-18 5A

BONACINA, C.
An Ecologic Survey of Lake Endine, (In Italian),
W76-08244 9-16 5C

BONANNO, A. J.
Process and Apparatus for Recovering Clean Water and Solids from Dilute Aqueous Solids,
W76-03011 9-07 5D

Process and Apparatus for Recovering Clean Water From Aqueous Wastes,
W76-08408 9-16 5D

BONASIA, J.
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W76-09375 9-17 5G

BOND, D. E.
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W76-07634 9-15 5D

BOND, H.
Some Effects of Cadmium on Coniferous Forest Soil/Litter Microcosms,
W76-01862 9-04 5B

BOND, J. H.
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W76-07155 9-14 5D

BOND, M. T.
Removal of Algae from Waste Stabilization Pond Effluent,
W76-11171 9-21 5D

BONDAREV, A. A.
Criteria for the Evaluation of the Efficiency of Secondary Settlers (Kriteiy otsenki raboty vtorichnykh otstoyhikov),
W76-07002 9-14 5D

Waste-Water Biochemical Purification,
W76-07631 9-15 5D

BONDIETTI, E. A.
Interaction of Plutonium with Complexing Substances in Soils and Natural Waters,
W76-08605 9-16 5B

BONDOC, C.
Microbiological Characterization of the Lacustrine Deposit Laid Open by Drying up of the Greaca Lake, (In Romanian),
W76-12571 9-23 2J

BONDURANT, D. T.
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W76-11046 9-20 5G

BONER, F. C.
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W76-05425 9-11 2E

BONEY, A. D.
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W76-11813 9-22 5C

BONHAM, W. G.
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W76-05423 9-11 7C

BONHOTE, P. A.
An Evaluation of the Use of Gamma Radiation in Sewage Treatment,
W76-05803 9-12 5D

BONIN, D. J.
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W76-11542 9-21 5G

BONIN, M-C.
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W76-09499 9-18 5A

BOOHER, L. J.
Surface Irrigation,
W76-00192 9-01 3F

BOOKER, J. R.
Effect of Seepage on Embankment Deformations Due to Water Loading,
W76-12188 9-23 4A

BOOKHOUT, C. G.
Effects of Mirex, Methoxychlor and Malathion on Development of Crabs,
W76-10899 9-20 5C

BOOKHOUT, T. A.
A Simulation Model of Tritium Kinetics in a Freshwater Marsh,
W76-10812 9-20 5B

BOON, A. G.
Oxygen Activated-Sludge Systems--I., Technical Review of the Use of Oxygen in the Treatment of Waste Water,
W76-12668 9-23 5D

BOON, J. D. III.
Applications of Remote Sensing to Estuarine Problems,
W76-13184 9-24 2L

BOONE, L. V.
Natural (15)N Abundance in Soil, Leaves, and Grain as Influenced by Long Term Additions of Fertilizer N at Several Rates,
W76-08765 9-17 3F

BOONE, R. D.
Irrigation System (Lifting Dogs),
W76-08398 9-16 3F

BOOS, R. P.
Irrigation Timing by the Stress Day Index Method,
W76-01082 9-03 3F

BOOTH, D. P.
Dredged Material Disposal--Effects and Alternatives,
W76-10724 9-20 5E

BOOTH, D. T.
Large Scale Color Photograph for Erosion Evaluations on Rangeland Watersheds in the Great Basin,
W76-02161 9-05 2J

BOOTH, R. B.
Leaching Polyelectrolyte Fluidized Solids,
W76-05536 9-12 5D

BOOTH, R. S.
A Compendium of Radionuclides Found in Liquid Effluents of Nuclear Power Stations,
W76-04835 9-10 5C

A Radiological Assessment of Radionuclides in Liquid Effluents of Light Water Nuclear Power Stations,
W76-04836 9-10 5C

A Specific-Activity and Concentration Model Applied to Cesium Movement in an Oligotrophic Lake,
W76-10275 9-19 5C

BOOTH, S. J.
Pumping-Test Analysis Using a Discrete Time-Discrete Space Numerical Method,
W76-05913 9-12 4B

BOOTSMA, R.
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W76-11188 9-21 5C

BOOY, C.
The Role of Two Manitoba Tribunals in Environmental Decision Making,
W76-07028 9-14 6G

BORBELY, G.
Valyl tRNA's of Anacystis Nidulans,
W76-08827 9-17 5C

BORCHERT, H.
Experience with a Pilot Plant for the Irradiation of Sewage Sludge, Results on the Effect of Differently Treated Sewage Sludge on Plants and Soil,
W76-09551 9-18 5D

BORDEN, F. Y.
The Penn State Orser System for Processing and Analyzing ERTS Data,
W76-02060 9-05 7C

BORDEN, R. W.
An Irrigation Rating for Some Soils in Antigua, W. I.,
W76-07963 9-15 2G

A Method for Determining the Irrigation Requirement in Antigua, W. I.,
W76-10981 9-20 3F

BORDEN, W.
Environmental Impact Statements/Environmental Policy Act--Legislative Intent,
W76-06558 9-13 6G

BORDON, D. C. JR.
Effects of Low Concentrations of Oil Accommodated in Sea Water on the Growth of Unialgal Marine Phytoplankton Cultures,
W76-08440 9-16 5C

BORDOVSKII, O. K.
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W76-07407 9-14 5A

BORGESE, D.
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W76-09505 9-18 5C

BORGESE, E. M.
Recommendations by Pacem in Maribus V to the U. N. Conference on the Law of the Sea,
W76-01391 9-03 6E

BORGMAN, L. E.
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W76-08535 9-16 4A

BORGSTROM, I.
YBBARPSAN-A Small Receptacle for a Large Industry: Water Conservation Action in the Vicinity of Perstorp AB, (In Swedish),
W76-06732 9-13 5D

BORIES, S. A.
Hydrothermal Convection in Saturated Porous Media,
W76-06415 9-13 2F

BORMAN, R. G.
Ground-Water Hydrology and Geology Near the July 1974 Phenol Spill at Lake Beulah, Walworth County, Wisconsin,
W76-02497 9-05 5B

BORMANN, F. H.
Leaching of Nutrients from Leaves of Selected Tree Species in New Hampshire,
W76-10312 9-19 5B

BORN, S. M.
Upgrading Lakes--Lake Renewal and Management Techniques,
W76-02645 9-06 5G

BORNER, F.
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W76-04220 9-09 5D

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W76-04032 9-09 5D

BOROVINSKAYA, L. B.
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W76-09081 9-17 2G

BORTHWICK, P. W.
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W76-05954 9-12 5A

BORTLESON, G. C.
Data on Selected Lakes in Washington, Part 3,
W76-08564 9-16 2H

Data on Selected Lakes in Washington, Part 4,
W76-12808 9-24 7C

Reconnaissance Data on Lakes in Washington--Volume 1. Clallam, Island, Jefferson, San Juan, Skagit, and Whatcom Counties,
W76-07592 9-15 2H

Reconnaissance Data on Lakes in Washington--Volume 2. King and Snohomish Counties,
W76-07591 9-15 2H

Reconnaissance Data on Lakes in Washington--Volume 3. Kitsap, Mason, and Pierce Counties,
W76-08565 9-16 2H

Reconnaissance Data on Lakes in Washington--Volume 4. Clark, Cowlitz, Grays Harbor, Lewis, Pacific, Skamania, and Thurston Counties,
W76-08566 9-16 2H

Reconnaissance Data on Lakes in Washington--Volume 5. Chelan, Ferry, Kittitas, Klickitat, Okanogan, and Yakima Counties,
W76-08567 9-16 2H

Reconnaissance Data on Lakes in Washington--Volume 6. Adams, Benton, Douglas, Franklin, Grant, Lincoln, Walla Walla, and Whitman Counties,
W76-10138 9-19 7C

Reconnaissance Data on Lakes in Washington--Volume 7. Pend Oreille, Spokane, and Stevens Counties,
W76-10139 9-19 7C

Table of Data on Water Quality of Baker Lake near Mount Baker, Washington,
W76-05857 9-12 7C

BORTNIK, A. V.
Pine Associations of the Dernovich Stretch of the Pripyat River Floodplain, (In Belorussian),
W76-01918 9-04 2I

BORTOLET, D.
A Quantitative Model for the Planning of Surface Water Resources: Use of Mixed Variable Linear Programming,
W76-12546 9-23 4A

BORUT, A.
Water Economy and Drinking Regime of the Bedouin Goat,
W76-13125 9-24 3C

BORUVKA, L.
Output from a Cascade of Discrete Linear Reservoirs with Stochastic Input,
W76-03742 9-08 2E

Simulation of Gamma-Distributed First-Order Markov Chain,
W76-00743 9-02 2E

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W76-01312 9-03 5D

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W76-05007 9-11 5G

BOSLEY, P.
Livestock Feedlots are Pollution Source,
W76-04413 9-09 5B

BOSLEY, R.
Spectral and Textural Processing of ERTS Imagery,
W76-02067 9-05 7C

BOSMAJIAN, G. III.
Analysis of Flow Through Vegetation,
W76-00015 9-01 4A

BOSNJAK, M.
Chevron Clarifier,
W76-10488 9-19 5D

BOSOLD, H.
Rain Recordings as Basis for the Dimensnioning of Rin Runoff Systems (Regenschreiberaufzeichnungen als Grundlage zur Dimensionierung von Regenwasserableitungsalagen),
W76-00365 9-01 5B

BOSSARD, P.
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W76-11579 9-21 5C

BOSSHARD, E. J.
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W76-08985 9-17 5D

BOSSUYT, L.
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W76-12416 9-23 5D

BOSTER, M. A.
Economic Adjustment to a New Irrigation Water Source: Pinal County, Arizona and the Central Arizona Project,
W76-02737 9-06 3F

Evaluation of Agricultural Adjustment to Irrigation Water Salinity: A Case Study for Pinal County, Arizona,
W76-04004 9-09 3C

BOSTOCK, C. A.
Application of Bayesian Decision Theory in Well Field Design,
W76-04928 9-10 4B

BOSTROM, K.
Postdepositional Injections of Uranium-Rich Solutions into East Pacific Rise Sediments,
W76-01098 9-03 8E

BOSWELL, C. R.
Biogeochemical Exploration for Tungsten at Barrytown, New Zealand,
W76-02893 9-06 5A

BOSWELL, E. H.
The Lower Wilcox Aquifer in Mississippi,
W76-06444 9-13 7C

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W76-08464 9-16 5D

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W76-09085 9-17 2I

BOTT, T. L.
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W76-10886 9-20 5C

BOTTOROFF, L. D.
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W76-01524 9-04 5F

BOTTRELL, H. H.
Generation Time, Length of Life, Instar Duration and Frequency of Moulting, and their Relationship to Temperature in Eight Species of Cladocera from the River Thames, Reading,
W76-09658 9-18 5C

The Relationship Between Temperature and Duration of Egg Development in Some Epiphytic Cladocera and Copepoda from the River Thames, Reading, with a Discussion of Temperature Functions,
W76-09659 9-18 5C

BOTZLER, R. G.
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W76-07423 9-14 5C

BOU, C.
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W76-08296 9-16 2L

BOUCHARD, K. G.
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W76-05190 9-11 6E

BOUDOURESQUE, C. F.
Minimal Area and Algal Marine Settlements, (In French),
W76-07951 9-15 2L

BOUDRA, D.
Studies on Numerical Modeling and Modification of Cyclone Scale Precipitation,
W76-13185 9-24 3B

BOUDREAU, J. J.
Water Quality and the Textile Industry,
W76-05292 9-11 5D

BOUGH, W. A.
Coagulation with Chitosan - An Aid to Recovery of By-Products from Egg Breaking Wastes,
W76-08289 9-16 5D

Physical-Chemical Treatment of Waste Effluents From Canning of Leafy Green Vegetables,
W76-03091 9-07 5D

BOUGHTON, W. C.
Flood Estimation from Short Records,
W76-07771 9-15 4A

BOULANGER, A.
On th Variability of 'Dynamic Seedability' as a Function of Time and Location Over South Florida. Part II. Temporal Variability,
W76-01529 9-04 2B

BOULDIN, D. R.
Phosphorus Loss by Stream Transport from a Rural Watershed: Quantities, Processes, and Sources,
W76-12435 9-23 5B

Some Observations Concerning Preparation and Storage of Stream Samples for Dissolved Inorganic Phosphate Analysis,
W76-00538 9-02 5A

BOULEKBACHE, H.
Effect of Lindane on Trout Fry (Salmo Irideus Gibb.) Changes in Glycolytic Enzymes, (In French),
W76-12253 9-23 5C

BOULENGER, P.
Improvements to Processes for Purifying Effluents Originating from the Manufacture and Bleaching of Chemical or Semichemical Papermaking Pulps (Perfectionnement aux procedes d'epuration des effluents provenant de la fabrication et du blanchiment des pates a papier dites chimiques ou semi-chimiques),
W76-12498 9-23 5D

Purification of Effluent,
W76-08206 9-16 5D

BOUMA, J.
Column Studies of Soil Clogging in a Slowly Permeable Soil as a Function of Effluent Quality,
W76-00721 9-02 5B

Relationships Between the Hydraulic Conductance of Surface Crusts and Soil Management in a Typic Hapludalf,
W76-03366 9-07 2G

Unsaturated Flow During Soil Treatment of Septic Tank Effluent,
W76-05058 9-11 5B

Variability of Hydraulic Conductivity in Two Subsurface Horizons of Two Silt Loam Soils,
W76-09257 9-17 2G

BOURDELOT, J.-C.
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W76-12498 9-23 5D

BOURNE, W. R. P.
Guillemots with Damaged Primary Feathers,
W76-11725 9-22 5C

Seabird Mortality in the North Irish Sea and Firth of Clyde Early in 1974,
W76-11727 9-22 5C

Temperature and the Seasonal and Geographical Occurrence of Oiled Birds on West European Beaches,
W76-11823 9-22 5C

BOURQUE, J. E.
Enhanced Growth and Increased Body Size of Turtles Living in Thermal and Post-Thermal Aquatic Systems,
W76-03482 9-07 5C

Population Ecology of Parasites in Turtles from Thermally Altered and Natural Aquatic Communties,
W76-03491 9-07 5C

BOURQUIN, A. W.
Microbial-Malathion Interactions in Artificial Salt-Marsh Ecosystems: Effect and Degradation,
W76-03634 9-08 5B

BOUSFIELD, S.
Practical Aspects of Anaerobic Digestion,
W76-12648 9-23 5D

BOUSH, G. M.
Incorporation of 203HG into Methylmercury in Fish Liver: Studies in Biochemical Mechanisms in Vitro,
W76-10347 9-19 5C

Pesticide Degradation by Marine Algae,
W76-03174 9-07 5C

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W76-08784 9-17 2L

BOUTIN, P.
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W76-09006 9-17 5D

BOUTON, A.
Technical, Economic and Organisational Aspects of the Exploitation of Groundwater Resources,
W76-00811 9-02 4B

BOUTRON, C.
Contributions to the Chemistry of Antarctic Snow: Determination of Trace Elements at the PPB Level by Atomic Absorption Spectrometry,
W76-03728 9-08 2C

BOUVENG, H. O.
Long-Term Stability of Waste Lignins in Aquatic Systems. Part 2. Stability in Saline Water,
W76-10838 9-20 5B

BOUWER, H.
Infiltration into Increasingly Permeable Soils,
W76-08516 9-16 2G

Infiltration-Percolation Systems,
W76-11236 9-21 5D

A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers with Completely or Partially Penetrating Wells,
W76-12432 9-23 2F

Use of the Earth's Crust for Treatment or Storage of Sewage Effluent and Other Waste Fluids,
W76-10216 9-19 5D

Wastewater Renovation and Reuse: Virus Removal by Soil Filtration,
W76-10219 9-19 5D

BOUWES, N. W.
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W76-04008 9-09 5G

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W76-02864 9-06 5G

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W76-10893 9-20 5C

BOVET, E. D.
Economic Concepts and Techniques Pertaining to Water Supply, Water Allocation, and Water Quality,
W76-08152 9-16 6B

Evaluation of Quality Parameters in Water Resource Planning: A State-of-the-Art Survey of the Economics of Water Quality,
W76-05818 9-12 5G

BOVIS, M. J.
Development of Methodology for Evaluation and Prediction of Avalanche Hazard in the San Juan Mountain Area of Southwestern Colorado,
W76-06605 9-13 2C

BOWDEN, C. J.
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W76-03152 9-07 3A

BOWDEN, K.
Evaluation of the Ciria Prototype Model for the Design of Sewage-Treatment Works,
W76-10245 9-19 5D

BOWDEN, R.
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W76-12627 9-23 5D

BOWEN, A. J.
The Resonant Instabilities of Long Waves Obliquely Incident on a Beach,
W76-04300 9-09 2L

BOWEN, V. T.
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W76-08603 9-16 5B

Distributions of Transuranium Nuclides in Sediment and Biota of the North Atlantic Ocean,
W76-08602 9-16 5B

Double-Tracer Studies to Optimize Conditions for the Radiochemical Separation of Plutonium from Large Seawater Samples,
W76-08610 9-16 5A

Quality Control in Radiochemical Analysis,
W76-08609 9-16 5A

BOWEN, W. S.
Trace Element Composition of Stream Sediments, An Integrating Factor for Water Quality,
W76-00377 9-01 5A

BOWERMAN, F. R.
Mechanisms of Leachate Formation in Sanitary Landfills,
W76-11118 9-21 5B

BOWERS, A. J.
The Treatment of Water Purification Plant Wastes,
W76-11256 9-21 5F

BOWERS, C. E.
Use of ERTS Imagery to Assist in Snowmelt Flood Prediction,
W76-02906 9-06 2C

BOWERS, D. M.
Operational Practices to Upgrade Trickling Filter Plant Performance,
W76-05781 9-12 5D

BOWES, J. E.
Development Priorities in the West River Region, North Dakota,
W76-05352 9-11 6B

Development Priorities in the West River Region, North Dakota, A Social Attitude and Communication Analysis,
W76-04007 9-09 6B

BOWETT, D. W.
The U.K./Icelandic Fisheries Case,
W76-05199 9-11 6E

BOWKER, D. E.
Evaluation of Water Samples Collected During LANDSAT-1 Overpasses of the Lower Chesapeake Bay Area,
W76-10672 9-20 5A

BOWLES, D. S.
Estimating Flow Conditions for River Models,
W76-11136 9-21 5B

BOWLEY, C. J.
Mapping Snow Extent in the Salt-Verde Watershed and the Southern Sierra Nevada Using Erts Imagery,
W76-02027 9-05 7B

Monitoring Arctic Sea Ice Using ERTS Imagery,
W76-02047 9-05 7B

BOWLING, J. L.
Determination of Selenium in Natural Waters Using the Centrifugal Photometric Analyzer,
W76-06128 9-12 2K

BOWMAN, M. C.
Removal of Trace Levels of 2-Acetylaminofluorene (2-AAF) from Wastewater,
W76-05117 9-11 5D

BOWMAN, M. D.
How to Perform a Through-Tubing Gravel Pack,
W76-10113 9-19 8G

BOWMAN, M. J.
Sewage Sludge and Ammonium Concentrations in the New York Bight Apex,
W76-06667 9-13 5B

BOWMAN, P.
A Study of the Fauna in Dredged Canals of Coastal Louisiana,
W76-07486 9-15 5C

BOWMER, K. H.
Dilution and Decay of Aquatic Herbicides in Flowing Channels,
W76-00895 9-02 5B

BOWSER, A.
Autogenus Incineration of Sewage Sludge now Possible,
W76-00219 9-01 5D

BOX, G. F.
A Water Conductivity Recorder,
W76-03453 9-07 5A

BOYCE, F. M.
Preliminary Energy Budget of Lake Ontario for the Period May Through November, 1972,
W76-11433 9-21 2H

A Simple Diffusion Model of the Mean Field Distribution of Soluble Materials in the Great Lakes,
W76-01476 9-03 5B

BOYCE, T. D.
Sea Water Corrosion Test Program: Part Three,
W76-03145 9-07 3A

BOYD, C. E.
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W76-01936 9-04 5C

Total Alkalinity and Hardness of Surface Waters in Alabama and Mississippi,
W76-01144 9-03 2K

OYD, C. H.
Benefits of an Extended Season: The Experiences of One Industrial User,
W76-12956 9-24 6B

OYD, E. I.
Effects of Cloud Seeding on Summertime Precipitation in North Dakota,
W76-06603 9-13 3B

OYD, J. W.
Chemical and Microbiological Studies of the Middle Salt Lagoon, Barrow, Alaska,
W76-01159 9-03 5C

OYD, M. J.
Hydrograph Synthesis Using Mathematical Models,
W76-01418 9-03 2A

OYD, R. N.
Determination of Aromatic Hydrocarbons in Sea Water using an Electrolytic Stripping Cell,
W76-10390 9-19 5A

OYD, W. L.
Chemical and Microbiological Studies of the Middle Salt Lagoon, Barrow, Alaska,
W76-01159 9-03 5C

OYDEN, C. R.
Distribution of some Trace Metals in Poole Harbour, Dorset,
W76-11965 9-22 5B

Effect of Zinc on the Settlement of the Oyster Crassostrea Gigas,
W76-00866 9-02 5C

A Trace Metal Problem in Pond Oyster Culture,
W76-11723 9-22 5C

OYER, J. S.
Relationship of Crop Metabolism and Water Status to Irrigation Need,
W76-01512 9-04 3F

Water Transport in Plants: Mechanism of Apparent Changes in Resistance During Absorption,
W76-07265 9-14 2I

OYER , K. M.
An Outbreak of Shigella Sonnei Gastroenteritis on Colorado River Raft Trips,
W76-07691 9-15 5C

OYET, W. E.
An Empirical Analysis of Water-Price Determinants in Small Municipalities,
W76-04936 9-10 6C

The Impact of Flooding Upon Land Values in the Big Black River Basin,
W76-11330 9-21 6C

OYKIN, E. H.
Analytical Notes--Electrochemical Method for Early Detection and Monitoring of Coliforms,
W76-10237 9-19 5A

OYKO, V.
Analysis of High-Purity Water and Acids by Spark Source Mass Spectrometry,
W76-12483 9-23 5A

OYLE, F. W.
Transfer of Boron and Tritiated Water Through Sandstone,
W76-08547 9-16 5B

BOYLE, J. D.
Biological Treatment Process in Cold Climates,
W76-10222 9-19 5D

Recycle of Liquor From Heat Treatment of Sludge,
W76-03200 9-07 5D

BOYLE, W. C.
Performance of Single Household Treatment Units,
W76-12637 9-23 5D

BOYLE, W. H.
Get the Most from the Final Clarifiers,
W76-03687 9-08 5D

BOYLEN, C. W.
Factors Affecting the Contribution by Epiphytic Algae to the Primary Productivity of an Oligotrophic Freshwater Lake,
W76-08357 9-16 5C

Lake George Site Synthesis, 1974-1975.
W76-12937 9-24 5C

Microdynamics of Detritus Formation and Decomposition and its Role as a Stabilization Influence in Freshwater Lakes,
W76-05459 9-11 5C

BOYLES, J. M.
Impact of Argo Tunnel Acid Mine Drainage, Clear Creek County, Colorado,
W76-06943 9-14 5G

BOYSEN, S. M.
Predicting Sediment Yield in Urban Areas,
W76-09746 9-18 4D

BRAASCH, D. A.
Statistical Study of Phosphorus Removal in Wisconsin,
W76-07146 9-14 5A

A Survey of Phosphorus Removal in Wisconsin,
W76-12649 9-23 5D

BRABSTON, C. W.
Rotary Drum Vacuum Filtration for Chemical/Biological Sludge,
W76-01666 9-04 5D

BRACILOVIC, D. M.
Development of Iron and Manganese Bacteria in Ranney Wells,
W76-03761 9-08 5B

BRACKETT, D. W.
Waste Water Recycling Process,
W76-04203 9-09 5D

BRADFORD, G. R.
Trace Element Concentrations of Sewage Treatment Plant Effluents and Sludges; Their Interactions with Soils and Uptake by Plants,
W76-06332 9-13 5B

BRADFORD, W.
Geology and Water Resources of Brown County, South Dakota--Part II: Water Resources,
W76-12290 9-23 4A

BRADFORD, W. L.
Distribution and Movement of Zinc and Other Heavy Metals in South San Francisco Bay, California,
W76-08561 9-16 5B

Water Quality Management Planning for Urban Runoff,
W76-02758 9-06 5D

BRADLEY, B. P.
The Anomalous Influence of Salinity on Temperature Tolerances of Summer and Winter Population of the Copepod Eurytemora Affinis,
W76-10884 9-20 5C

BRADLEY, E.
The Effects of Freshwater Inflows on Hydrological and Biological Parameters in the San Antonio Bay System, Texas,
W76-03420 9-07 2L

BRADLEY, E. B.
Detection of Salts of 2,4-D in Aqueous Solution by Laser Raman Spectroscopy,
W76-08254 9-16 5A

BRADLEY, E. H.
Stabilization of Waste Material,
W76-09425 9-18 5D

BRADLEY, P. R.
The Role of Mixing in Equalization,
W76-00237 9-01 5D

BRADLEY, R. L.
Cationic Polymers for Breaking Oil-In-Water Emulsions,
W76-11449 9-21 5D

BRADLEY, R. M.
Water Pollution Control in the Italian Straw Paper Industry,
W76-03079 9-07 5D

BRADLEY, R. S.
Equilibrium-Line Altitudes, Mass Balance, and July Freezing-Level Heights in the Canadian High Arctic,
W76-05682 9-12 2C

BRADLEY, W. B.
Heavy Collars Aid Hole Control,
W76-10102 9-19 8G

BRADLEY, W. C.
Form, Genesis, and Deformation of Central California Wave-Cut Platforms,
W76-07552 9-15 2L

BRADSHAW, D. L.
Irrigation System,
W76-03502 9-08 3F

BRADSHAW, K. E.
Adjustable Soaker Hose Support Assembly,
W76-08197 9-16 3F

BRADY, D. K.
Introduction and Physical Description of Lake Norman,
W76-05871 9-12 5C

Thermal and Water Quality Characteristics of Lake Norman,
W76-05872 9-12 5C

BRADY, F. P.
Application of Energy-Dispersive X-Ray Fluorescence to Trace Metal Analysis of Natural Waters,
W76-02510 9-06 5A

BRADY, J.
Management of an Effective Maintenance Program,
W76-06333 9-13 5G

Optimal Sampling and Objective Analysis,
W76-06609 9-13 2B

BRAEUER, H. W.
Experiences with Dry Filtration of Water in the North German Low Land (Erfahrungen Mit Der Trockenfiltration Vol Waessern Der Norddeutschen Tiefebebe),
W76-01548 9-04 5F

BRAGG, D. M.
Industry Candidates and General Locations for Artificial Industrial-Port Islands,
W76-09377 9-17 5G

BRAGIN, B. I.
On Accumulation of Sr90 and Cs137 by Some Fish Species in Freshwater Reservoirs,
W76-06876 9-14 5C

BRAIDECH, T. E.
River Pollution by Anticholinesterase Agents,
W76-08782 9-17 5C

BRAMATI, L.
Regulations and Environmental Investigations Associated with Nuclear Station Thermal Discharges,
W76-08886 9-17 5G

BRAMMER, J. D.
Chronic Oil Contamination and Aquatic Organisms with Emphasis on Diptera: Status and Bibliography,
W76-11709 9-22 5C

BRANCH, J. W. JR.
A Planning Study on Dairy Wastes Management,
W76-07175 9-14 5D

BRANDES, E. A.
Optimizing Rainfall Estimates with the Aid of Radar,
W76-02423 9-05 2B

BRANDES, M.
Movement of Tracers Through Soil,
W76-05701 9-12 5B

Studies on Subsurface Movement of Effluent from Private Sewate Disposal Systems using Radioactive and Dye Tracers, Part 2, 1973-74,
W76-04000 9-08 5B

BRANDES, R. J.
Estuarine Ecologic Simulations,
W76-09950 9-18 2L

Simulation of Tidal Hydrodynamics - Masonboro Inlet,
W76-09953 9-18 8B

BRANDON, C.
Zero Discharge as Exemplified by Textile Dyeing and Finishing,
W76-12421 9-23 5D

BRANDON, C. A.
Complete Reuse of Textile Dyeing Wastes Processed with Dynamic Membrane Hyperfiltration,
W76-02312 9-05 5D

BRANDON, D. E.
Hydrocarbons in Water and Sediment Samples from Coal Oil Point Area, Offshore California,
W76-09384 9-17 5B

BRANDON, F. J.
Fiber Recovery Increases Water Re-Use, Reduces Treatment Cost,
W76-08489 9-16 5D

BRANDT, A.
Measurement of Hydraulic Conductivity and Diffusivity for Predicting the Process of Soil Water Infiltration from a Trickle Source,
W76-04700 9-10 2G

BRANDT, D. C.
Development of Non-Cellulosic RO Systems for Sea Water Desalting,
W76-07318 9-14 3A

BRANDT, H.
Study of the Genus Vibrio in Drinking Water, (In Spanish),
W76-06731 9-13 5C

BRANDT, H. T.
Apollo County Park Wastewater Reclamation Project. Antelope Valley, California,
W76-12864 9-24 5D

BRANDT, L. W.
Process for Separating Liquids from Suspensions,
W76-11448 9-21 5D

BRANION, R. M. R.
Ion Flotation for Color Removal from Kraft Mill Effluent,
W76-00041 9-01 5D

BRANSON, B. A.
Additional Observations on the Effects of Strip Mining on Small-Stream Fishes in East-Central Kentucky,
W76-09468 9-18 5C

BRANSON, D. R.
Bioconcentration of 2,2',4,4'-Tetrachlorobiphenyl in Rainbow Trout as Measured by an Accelerated Test,
W76-03766 9-08 5C

BRANSON, R. L.
Water Quality in Irrigated Watersheds,
W76-08679 9-16 5B

BRANTSEVICH, L. G.
Distribution of Heterotrophic Bacteria in Water and Bottom Deposits of the Kremenchug Reservoir in Relation to the Intensity of Development of Blue-Green Algae, (In Russian),
W76-12306 9-23 5C

Quantitative Dynamics of Bacteria in the Kremenchug Reservoir, (In Russian),
W76-13195 9-24 5C

BRAS, R. L.
Evaluation of Mean Square Error Involved in Approximating the Areal Average of a Rainfall Event by a Discrete Summation,
W76-09572 9-18 2B

Rainfall Generation: A Nonstationary Time-Varying Multidimensional Model,
W76-12208 9-23 2B

Rainfall-Runoff as Spatial Stochastic Processes: Data Collection and Synthesis,
W76-02069 9-05 2B

BRASHEAR, D. A.
A Virus-In-Water Study of Finished Water From Six Communities,
W76-12866 9-24 5A

BRASHIER, C. K.
Evaluation of a Recreational Lake Rehabilitation Project,
W76-00379 9-01 5A

BRASK, G.I.
Cooperation Helps Erie,
W76-08481 9-16 5D

BRATER, E. F.
Rainfall-Runoff Relations on Urban and Rural Areas,
W76-00685 9-02 2A

BRATT, J. M.
Biogeochemistry of Marsh Gases: Effects of Inorganic Constituents of Marsh Plants on Methane Evolution; and Carbohydrate Stability in Plants,
W76-01139 9-03 2L

BRAUHN, J. L.
Acquisition and Culture of Research Fish: Rainbow Trout, Fathead Minnows, Channel Catfish, and Bluegills,
W76-00680 9-02 5G

BRAUN, R. J.
EPA's Position on Ocean Disposal in the New York Bight,
W76-05084 9-11 5E

BRAUNE, W.
Studies on the Algal Colonization of the Saale River Near Jena: Part I. The Test Area and its Non-Biological Properties, (In German),
W76-12166 9-23 5A

BRAUNLICH, F. H.
Well Completion - Techniques and Methods,
W76-08894 9-17 8G

BRAUNS, O.
Efficient White Water Handling at Munksjo Mill,
W76-04767 9-10 5D

Symposium on Water Purification (Symposium over vattenrening),
W76-05711 9-12 5D

BRAVO, N. J.
Effect of Openings on Inflow into Corrugated Drains,
W76-13021 9-24 4A

BRAY, D. I.
Classification and Analysis of River Processes,
W76-12973 9-24 8B

Representative Discharges for Gravel-Bed Rivers in Alberta, Canada,
W76-03357 9-07 2E

BRAY, D. T.
Apparatus for Control of a Reverse Osmosis System,
W76-07440 9-14 3A

Reverse Osmosis System with Automatic Flushing,
W76-12402 9-23 5D

BRAY, R. A.
Technical Capabilities of Offshore Exploration Operations to Maximize Safety amd Environmental Protection,
W76-11004 9-20 5G

BRAZEL, A. J.
A Preliminary Water and Energy Budget Analysis of Montezuma Well, Arizona,
W76-09072 9-17 4B

BRAZHNIKOV, V. I.
Furnace for Thermal Treatment of Liquid Industrial Waste Waters Containing Toxic Or-

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W76-09875 9-18 5D

BRECHT, W.
On the Effectivity of WASTE Water Bentonite for the Clarification of Paper Mill Effluents (Uber die Wirksamkeit von Abwaserbentonit zur Klarung von Papierfabriksabwassern),
W76-04220 9-09 5D

Water and Its Role in the World (Wasser und was es in der Welt damit auf sich hat),
W76-05739 9-12 6D

BREDEHOEFT, J. D.
Stress Determination by Hydraulic Fracturing in Subsurface Waste Injection,
W76-00089 9-01 5E

BREE, D. W. JR.
Studies on Operations Planning and Control of Water Distribution Systems,
W76-00506 9-02 6A

BREEN, L. Z.
Systematic Development of Methodologies in Planning Urban Water Resources for Medium Size Communities. Phase I. Final Report,
W76-11175 9-21 6B

Systematic Development of Methodologies in Planning Urban Water Resources for Medium Size Communities: Population Characteristics and Residential Water Use,
W76-11177 9-21 6B

BREEN, R. L.
Energy Models and Forecasts: A User's Point of View,
W76-09613 9-18 6A

BREER, C.
Epidemiology of Salmonellae and Fertilizing of Grassland With Sewage Sludge (Salmonellenepidemiologie und Gruenland-duengung Mit Klaerschlamm),
W76-03807 9-08 5C

Sanitary Effect of Gamma Irradiation on Sewage Sludge,
W76-09527 9-18 5D

BREES, D. R.
Combined Daily Climatic Data and Dilute Solution Chemistry in Studies of Soil Profile Formation,
W76-03450 9-07 2G

BREHEMER, M. L.
Nutrients and Primary Production in a Warm Water Stream,
W76-07104 9-14 5C

BREHM, R. D.
Elongation Characteristics of Corrugated Plastic Tubing,
W76-01064 9-03 3F

Sediment from Drainage Systems for a Heavy Soil,
W76-13001 9-24 3F

BREITTMAYER, J. P.
Incineration at Sea of Liquid Chlorinated Residues (In French),
W76-06746 9-13 5E

Study of the Dispersion of Bacteriophages in a Natural Marine Environment, (In French),
W76-06691 9-13 5B

Teledetection by Airplane and Satellite in the Study of Marine Pollution, (In French),
W76-06717 9-13 5A

BREMNER, J. M.
Control of Nitrogen Transformations in Soils,
W76-05608 9-12 5B

BRENDER, M.
Lagoons--Sink or Swim,
W76-00918 9-02 5D

BRENK, D.
Possible Future Effects on the Population of the Federal Republic of Germany of Gaseous Radioactive Effluents from Nuclear Facilities,
W76-09499 9-18 5A

BRENNAN, J. J.
Effects of Water Quality on the Recreational Use of Water in South East Texas,
W76-11335 9-21 5G

BRENNAN, R.
Salt-Load Computations--Colorado River; Cameo, Colorado to Cisco, Utah: Part 1. Data Summary,
W76-10142 9-19 7C

Salt-Load Computations--Colorado River; Cameo, Colorado, to Cisco, Utah: Part 2. Basic Data,
W76-10143 9-19 7C

BRENNIMAN, G.
A Continuous Flow Bioassay Method to Evaluate the Effects of Outboard Motor Exhausts and Selected Aromatic Toxicants on Fish,
W76-08780 9-17 5C

BRESLER, E.
Finite Difference and Finite Element Simulation of Field Water Uptake by Plants,
W76-12830 9-24 2G

Transport of Water and Heat in a Frozen Permeameter,
W76-10713 9-20 2G

Two-Deminsional Transport of Solutes During Nonsteady Infiltration From a Trickle Source,
W76-01303 9-03 2G

Water Utilization and Soil Salinity: Control in Arid Zone Agriculture,
W76-09482 9-18 3C

BRESSETTE, W. E.
Broadband Spectral Photography of the James River,
W76-13180 9-24 5A

BRESSLER, G. O.
Manure Reduction and Conversion Methods of the Future,
W76-00478 9-01 5D

BRESSON, C. R.
Coaslescence Filter For Oil-Water Dispersions,
W76-12408 9-23 5G

BRETHAUER, D. M.
Development of Non-Cellulosic RO Systems for Sea Water Desalting,
W76-07318 9-14 3A

BRETHERTON, F. P.
Recent Developments in Dynnamical Oceanography,
W76-04956 9-10 2L

BRETSCHER, U.
Improved Method for the Phosphate Determination in Waste Water (Verbesserte Methode Zur Phosphatbestimmung im Abwasser),
W76-09190 9-17 5A

BRETT, C. W.
Behavioral Impairment Produced by Exposure to Subclinical Amounts of Methylmercury Chloride,
W76-09037 9-17 5C

BRETTHAUER, R.
Laboratory Experiments to Determine the Limits of Tolerance of Flagellates to Some Abiotic Factors,
W76-09110 9-17 5C

BREVIK, T. J.
Runoff Control Systems for Concrete Dairy Cattle Yards,
W76-01039 9-03 5B

BREWER, G.
Preliminary Observations on the Lower Minimum Temperature Requirements of the Northern Anchovy,
W76-11795 9-22 5C

BREWER, H. P.
Odor Control with Hydrogen Peroxide,
W76-12932 9-24 5D

BREWER, R.
Industrial Development Through Water-Resources Planning,
W76-09034 9-17 3E

BREWER, S. T.
Comparative Risk-Cost-Benefit Study of Alternative Sources of Electrical Energy,
W76-05829 9-12 6B

BREWER, W. C. JR.
The Concept of State and Local Relations Under the CZMA,
W76-07360 9-14 6E

BREWIN, D.
A Continuous Gargantuan Task for Severn Trent,
W76-00640 9-02 5A

BREZINA, J.
Experience with a Small Scale, Highly Distorted Fixed Bed Model of the Lago Maracaibo Estuary,
W76-09979 9-18 2L

BREZNY, O.
Studies on Evapotranspiration of Some Aquatic Weeds,
W76-10554 9-20 2D

BREZONIK, P. L.
Boron and Arsenic Studies in Florida Waters,
W76-10265 9-19 5B

Continuous Monitoring, Automated Analysis, and Sampling Procedures, (Literature Review),
W76-12902 9-24 5A

BRIAND, F. J. P.
Effects of Power-Plant Cooling Systems on Marine Phytoplankton,
W76-10339 9-19 5C

BRIDGES, D. W.
Wet Oxidation Process for Waste Material,
W76-03518 9-08 5D

BRIDGWATER, A. V.
The Economics of Recovery of Materials from Industrial Wastec-A Case Study,
W76-12948 9-24 5D

BRIESE, L. A.
Bird Diversity and Thermal Stress in a Cypress Swamp,
W76-03493 9-07 5C

Distribution of Radiocesium in Vegetation Along a Contaminated Stream,
W76-10300 9-19 5B

Radiocesium Levels in Vegetation Colonizing a Contaminated Flood Plain,
W76-10298 9-19 5C

Seasonal Variation in Radiocesium Concentrations in Three Tree Species,
W76-10299 9-19 5C

BRIGGS, G. A.
Plume Rise from Multiple Sources,
W76-04810 9-10 5B

BRIGGS, P. B.
Effects Of A Sanitary Landfill On Groundwater Quality In Ashland, New Hampshire,
W76-03721 9-08 5C

BRIGGS, P. T.
American Lobsters at Artificial Reefs in New York,
W76-07967 9-15 2L

Fish Investigations in Long Island Sound at a Nuclear Power Station Site at Shoreham, New York,
W76-12743 9-24 2L

BRIGGS, R.
Instrumental Methods of Monitoring Organic Pollution,
W76-06933 9-14 5A

Instrumentation for Monitoring Water Quality,
W76-00360 9-01 5A

BRIGGS, R. P.
Map of Rock Types in Bedrock of Allegheny County, Pennsylvania,
W76-12791 9-24 7C

BRIGGS, W. S.
Clarification Process,
W76-06471 9-13 5F

BRIGHAM, W. E.
Pulse-Testing Response for Unequal Pulse and Shut-In Periods,
W76-03371 9-07 4B

BRINCKERHOFF, G. G.
New York Takes Another Giant Step,
W76-09710 9-18 5D

BRINEY, R. A.
The Icelandic Fisheries Dispute: A Decision is Finally Rendered,
W76-02091 9-05 6E

BRINGHAM, J. C.
California High Water, 1972-1973,
W76-01315 9-03 2E

California High Water, 1973-1974,
W76-01482 9-03 2E

BRINGI, V. N.
Potential Use of Radar Differential Reflectivity Measurements at Orthogonal Polarizations for Measuring Precipitation,
W76-06927 9-14 2B

BRINGMANN, G.
Model Plant for Biological Removal of Phosphate from Communal Waste Water, III. Biological Phosphate Removal from Communal Waste Water Preliminarily Cleaned by a Biological Process (Modellverfahren Zur Biologischen Entphosphatung Kommunaler Abwaesser, III. Biologische Entphosphatung Biologisch Vorgereinigten Kommunalen Abwassers Enies Kalerwerkes),
W76-07057 9-14 5D

BRINK, D. L.
Method and Apparatus for the Destructive Decomposition of Organic Wastes Without Air Pollution and With Recovery of Chemical Byproducts,
W76-08459 9-16 5D

BRINK, J. J.
Total Population Density of Crustacea and Aquatic Insecta as an Indicator of Fenthion Population of River Water,
W76-03779 9-08 5G

BRINK, N.
Water Pollution from Agriculture,
W76-01162 9-03 5B

BRINK, R. H. JR.
Synergistic Compositions Containing 2,2-Dibromo-3-Nitrilopropionamide and 3,3,4,4-Tetrachlorotetrahydro-Thiopene-1,1-Dioxide and Their Use,
W76-05531 9-12 5F

BRINSON, L. G.
The Gradient of Salinity, Its Seasonal Movement, and Ecological Implications for the Lake Izabal-Rio Dulce Ecosystem, Guatemala,
W76-07975 9-15 5C

BRINSON, M. M.
The Gradient of Salinity, Its Seasonal Movement, and Ecological Implications for the Lake Izabal-Rio Dulce Ecosystem, Guatemala,
W76-07975 9-15 5C

Organic Matter Losses from Four Watersheds in the Humid Tropics,
W76-12428 9-23 5B

The Submersed Macrophytes of the Pamlico River Estuary, North Carolina,
W76-06809 9-14 5C

BRISBIN, I. L.
Chemical Composition of White-Tailed Deer: Whole-Body Concentrations of Macro- and Micronutrients,
W76-10303 9-19 5C

Radiocesium Concentrations in Whole-Body Homogenates and Several Body Compartments of Naturally Contaminated White-Tailed Deer,
W76-10304 9-19 5C

BRISBIN, I. L. JR.
Abundance and Diversity of Waterfowl Inhabiting Heated and Unheated Portions of a Reactor Cooling Reservoir,
W76-03494 9-07 5C

Distribution of Alligators in Response to Thermal Gradients in a Reactor Cooling Reservoir,
W76-03484 9-07 5C

BRISKE, D. D.
Drought Resistance Characteristics of Blue Grama Seedlings,
W76-11505 9-21 2I

BRITCH, A. L.
Towards Rational Drainage Design,
W76-01061 9-03 4A

BRITT, L. O.
Lime Use in Wastewater Treatment: Design and Cost Data,
W76-05868 9-12 5D

BRITT, T. E.
Design, Construction, and Field Test Evaluation of a Hollow Fine Fiber Module,
W76-03156 9-07 3A

BRITTON, L. J.
An Introduction to the Processes, Problems, and Management of Urban Lakes,
W76-01588 9-04 2H

Variation in Concentration of Selected Water-Quality Constituents in the Sacramento River at Bend Bridge, California,
W76-11078 9-20 5A

BROADWAY, R. W.
Cost-Benefit Rules in General Equilibrium,
W76-06625 9-13 6B

BROBERG, S.
Effect of a Sublethal Concentration of Phenol on Some Blood Plasma Enzyme Activities in the Pike (Esox Lucius L.) in Brackish Water,
W76-07977 9-15 5C

BROCARD, D. N.
One-Dimensional Temperature Predictions in Unsteady Flows,
W76-08738 9-16 5B

BROCHET, J. C.
Study of the Behaviour of Poliomyelitis Virus Type 1 in Different Hydrous Media, (In French),
W76-11569 9-21 5A

BROCINER, H.
Method and Apparatus for Treating Sewage,
W76-00857 9-02 5D

BROCK, T. D.
Predicting the Ecological Consequences of Thermal Pollution from Observations on Geothermal Habitats,
W76-08883 9-17 5C

Temperature Optimum of Algae Living in the Outfall of a Power Plant on Lake Monona,
W76-06001 9-12 5C

BROCKETT, O. D.
Microbial Reactions in Facultative Oxidation Ponds -- I. The Anaerobic Nature of Oxidation Pond Sediments,
W76-09435 9-18 5D

BROCKSEN, R. W.
Effects of a Parasitic Gut Nematode on Consumption and Growth in Juvenile Rainbow Trout (Salmo Gairdneri),
W76-01622 9-04 8I

Respiratory Response of Juvenile Chinook Salmon and Striped Bass Exposed to Benzene, A Water-Soluble Component of Crude Oil,
W76-09323 9-17 5C

Translocation of Hydrocarbons in Aquatic Food Chains,
W76-01921 9-04 5C

BROCKWAY, C. E.
Alternative Methods of Estimating Snow Water Parameters,
W76-08259 9-16 2C

Boise Post-Audit Study, Hydrology Support Study,
W76-02372 9-05 6B

Impact of Changes in Irrigation water Management in Eastern Idaho,
W76-08925 9-17 3F

BRODDEVALL, B.
A New Color Removal Process: A Field Report,
W76-04223 9-09 5D

BRODERICK, M. T.
Sewer Insertion Renewal Saves Town $2.5 Million,
W76-01461 9-03 8G

BRODERSEN, K. T.
Study of the Waste Characteristics of Fish Processing Plants. Located in the Maritime Region,
W76-04252 9-09 5B

BRODEUR, T.
Concentration of Brewery Spent Grain Liquor Using a Submerged Combustion Evaporator,
W76-04744 9-10 5D

BRODIE, H. L.
Land Disposal of Livestock Waste,
W76-00440 9-01 5E

BRODSKY, M. H.
Evaluation of Pfizer Selective Enterococcus and KF Media for Recovery of Fecal Streptococci from Water by Membrane Filtration,
W76-11628 9-22 5A

BROECKER, W.
Gas-Exchange Rates in a mall Lake as Determined by the Radon Method,
W76-04219 9-09 5B

BROENKOW, W. W.
Cadmium in Plankton: Elevated Concentrations Off Baja California,
W76-03021 9-07 5B

Processes Controlling the Dissolved Silica Distribution in San Francisco Bay,
W76-07107 9-14 5C

BROGARDH, T.
A Flexible Apparatus for Continuous Recording of Water Uptake by Plants,
W76-00571 9-02 2I

BROGDEN, R. E.
Water Resources of Pierce County, Nebraska,
W76-07598 9-15 4A

BROGDON, N. J. JR.
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W76-07454 9-15 8B

Westport Small-Boat Basin Revision Study; Hydraulic Model Investigation,
W76-07462 9-15 8B

BROMBERG, K. M.
Determination of the Number of Commercial and Noncommercial Recreational Boats in the United States, Their Use, and Selected Characteristics,
W76-01817 9-04 6B

BROMLEY, D. W.
The Economics of Sewerage Pricing and Investment Policies: The Madison Metropolitan Sewerage District,
W76-04008 9-09 5G

BRONFMAN, A. M.
Isolation of the Runoff-Dependent Salinity in a Shallow River-Mouth Offshore Zone Under Conditions of Wind-Induced Rise and Fall of the Water Level, (In Russian),
W76-10361 9-19 2L

BRONZI, P.
First Results on Artificial Reproduction of Bass, Morone Labrax (L.), Reared in Brackish Water, (In Italian),
W76-07298 9-14 2L

BROOKE, L. T.
Effect of Different Constant Incubation Temperatures on Egg Survival and Embryonic Development in Lake Whitefish (Coregonus Clupeaformis),
W76-02392 9-05 5C

BROOKER, M. P.
Aquatic Herbicides and the Control of Water Weeds,
W76-01911 9-04 5G

BROOKFIELD, F. M.
The Conveyancer, Water Rights and the Environment,
W76-10736 9-20 6E

BROOKS, A. S.
Effects of Chlorine and Sulfite Reduction on Lake Michigan Invertebrates,
W76-13113 9-24 5C

Effects of Condenser Entrainment on Algal Photosynthesis at Mid-Atlantic Power Plants,
W76-08637 9-16 5C

Entrainment of Planktonic Organisms into Cooling Water Systems of Three Mid-Atlantic Thermal Power Plants,
W76-08635 9-16 5C

Phytoplankton Entrainment Studies at the Indian River Estuary, Delaware,
W76-08636 9-16 5C

Primary Production,
W76-05874 9-12 5C

The Toxicity of Chlorine to Freshwater Organisms Under Varying Environmental Conditions,
W76-12889 9-24 5C

BROOKS, D. J.
LANDSAT Measures of Water Clarity,
W76-03237 9-07 5A

BROOKS, J. M.
Use of Low Molecular-Weight-Hydrocarbon Concentrations as Indicators of Marine Pollution,
W76-10400 9-19 5B

BROOKS, K. N.
Antitranspirants as a Possible Alternative to the Eradication of Saltcedar Thickets,
W76-04929 9-10 3B

BROOKS, R. R.
Biogeochemical Exploration for Tungsten at Barrytown, New Zealand,
W76-02893 9-06 5A

BROOKSBANK, P.
Automated Determinations of Dissolved Organic Carbon in Lake Water,
W76-05047 9-11 5A

BROOM, M. J.
Caesium-137: Its Accumulation in a Littoral Community,
W76-11808 9-22 5C

BROOME, S. W.
Propagation of Spartina Alterniflora for Substrate Stabilization and Salt Marsh Development,
W76-01169 9-03 2L

BROTCHIE, J. F.
Econometric Model to Aid in Urban Planning Decisions,
W76-07232 9-14 6A

Some Systems Concepts for Urban Planning,
W76-01008 9-03 6A

BROTHERS, F. A.
Kraft Mill Effluent Treatment Process,
W76-05334 9-11 5D

BROUGHTON, R. S.
An Experiment with a Linearly Increasing Spacing of Subsurface Drains,
W76-13020 9-24 4A

A Laboratory Test of Some Drain Tube Filter Materials,
W76-00832 9-02 8G

BROUHA, P.
Dissolved Oxygen Depletion in Static Bioassay Systems,
W76-00869 9-02 5A

BROUSSARD, D. E.
Technical Capabilities in Offshore Pipeline Operations to Maximize Safety,
W76-11003 9-20 5G

BROUSSARD, W. L.
Water Resources of the Cedar River Watershed, Southeastern Minnesota,
W76-07117 9-14 7C

BROUWER, G. K.
The Evaporation and Sedimentation in Man-Made Arade Lake, Southern Portugal,
W76-10703 9-20 2D

BROUZES, R. J. P.
Use of Lime in the Treatment of Municipal Wastewaters,
W76-04242 9-09 5D

BROWER, D. L.
Retention of Metals in Sewage Sludge II: Incorporated Radioisotopes,
W76-10006 9-19 5A

BROWN, A. C.
Observations on the Effects of Crude Oil Pollution on the Sandy-Beach Snail, Bullia (Gastropoda:Prosobranchiata),
W76-11459 9-21 5C

BROWN, C. B.
Cascade Passes Avalanche Atlas, Part I: Chinook, Cayuse, White and Snoqualmie Passes,
W76-04318 9-09 7C

BROWN, C. B.

Methods of Avalanche Control in Washington Mountain Highways-Summary Report,
W76-01492 9-03 2C

Methods of Avalanche Control on Washington Highways, Fourth Annual Report,
W76-02546 9-06 2C

BROWN, C. W.
Sampling of Oil Spills and Fingerprinting by Infrared Spectroscopy,
W76-10383 9-19 5B

BROWN, D.
Remote Sensing Applications to Hydrology in Minnesota,
W76-02907 9-06 4A

BROWN, D. A.
Effect of Bleached Kraft Mill Effluent on the Survival of Starved Juvenile Coho Salmon (Oncorhynchus Kisutch),
W76-05710 9-12 5C

BROWN, D. E.
A Second Locality for Native California Fan Palms (Washingtonia Filifers) in Arizona,
W76-13069 9-24 2I

BROWN, D. W.
Earthwatch,
W76-06321 9-13 5A

Earthwatch-Sentinel for the Future,
W76-10645 9-20 5A

Reactions of Aqueous Aluminum Species at Mineral Surfaces,
W76-02485 9-05 2K

BROWN, E. E.
An Economic Analysis of Georgia's Marine Charter Boat Fishing Industry,
W76-06624 9-13 6C

BROWN, F. L.
Water Demands for Energy Development,
W76-04337 9-09 6D

BROWN, G.
Demand for Dissolved Oxygen Exerted by Finely Divided Logging Debris in Streams,
W76-05939 9-12 4C

Preliminary Evaluation of the Radiological Quality of the Water on Bikini and Eneu Islands,
W76-12701 9-24 5C

BROWN, G. A.
An In-Situ Investigation of Oil Barrier Shape and Drag Coefficients,
W76-12378 9-23 5G

BROWN, H. E.
Hydrology of Black Mesa Watersheds, Western Colorado,
W76-01233 9-03 4D

Multiple Use Evaluations on Ponderosa Pine Forest Land,
W76-08109 9-16 4A

BROWN, H. G.
Efficiency of Heavy Metals Removal in Municipal Sewage Treatment Plants,
W76-08008 9-15 5D

BROWN, H. R.
An Automated Technique for the Sub-Microgram Determination of Selenium and Arsenic in Surface Waters by Atomic Absorption Spectroscopy,
W76-05736 9-12 5A

Microgram Determination of Boron in Surface Waters by Atomic Emission Spectrometry,
W76-11397 9-21 5A

BROWN, J.
Accumulating Snow to Augment the Fresh Water Supply at Barrow, Alaska,
W76-01323 9-03 2C

Computer Simulation of the Snwomelt and Soil Thermal Regime at Barrow, Alaska,
W76-02703 9-06 2C

A Digital Computer Simulation of the Annual Snow and Soil Thermal Regimes at Barrow, Alaska,
W76-04674 9-10 2C

BROWN, J. A. H.
Data Needs, Aquisition, and Availability for Hydrologic Models,
W76-04146 9-09 7C

BROWN, J. C.
Chemical Composition of Snow in the East Central Sierra Nevada,
W76-04018 9-09 2C

The Role of Conventional Wastewater Treatment in Coastal Areas,
W76-11229 9-21 5D

BROWN, J. M.
Peat Temperature Regime of a Minnesota Bog and the Effect of Canopy Removal,
W76-12174 9-23 2G

BROWN, J. R.
The Effect of Dursban Upon Fresh Water Phytoplankton,
W76-08773 9-17 5C

BROWN, J. S.
UHR Filters Treating Mill Wastewaters,
W76-02434 9-05 5D

BROWN, JAMES M.
A Controlled Environment System for Measuring Plant-Atmosphere Gas Exchange,
W76-02277 9-05 2I

BROWN, K. D.
Incinerator and System for Cleaning Products of Combustion,
W76-06991 9-14 5E

BROWN, K. J.
Large Scale Effects of Cloud Seeding,
W76-06562 9-13 3B

BROWN, K. W.
In Situ Soil Gamma Analyzer--A New Approach to Determine the Movement of Pollutants in Soils.
W76-00912 9-02 5A

BROWN, L.
Accumulating Snow to Augment the Fresh Water Supply at Barrow, Alaska,
W76-01323 9-03 2C

BROWN, L. M.
Subarctic Plant Communities and Associated Litter and Soil Profiles in the Caribou Creek Research Watershed, Interior Alaska,
W76-06194 9-13 4D

BROWN, L. R.
The Effect of Mirex and Carbofuran on Estuarine Microorganisms,
W76-01864 9-04 5B

BROWN, L. S.
Development of a High Seas Oil Recovery System, Phase II, Appendix I. Design Studies and Specifications,
W76-01225 9-03 5G

Development of a High Seas Oil Recovery System, Phase II, Appendix II. Materials and Component Tests,
W76-01226 9-03 5G

Development of a High Seas Oil Recovery System, Phase II, Appendix III. System Tests,
W76-01227 9-03 5G

Long-Term Effects of an Oil Spill at West Falmouth, Massachusetts,
W76-00146 9-01 5C

BROWN, M.
The Economic Value of Undeveloped Shoreline,
W76-04516 9-10 6B

BROWN, P.
Costs as a Guide to Pricing,
W76-05570 9-12 6C

BROWN, R.
The Application of Spark Source Mass Spectrometry to the Analysis of Water Samples,
W76-06945 9-14 5A

BROWN, R. A.
Measurement and Characterization of Non-volatile Hydrocarbons in Ocean Water,
W76-10394 9-19 5B

Measurement of Hydrocarbons in Water and Sediment,
W76-05144 9-11 5A

Methods for Polynuclear Aromatic
W76-05145 9-11 5A

BROWN, R. E.
Plan Formulation and Evaluation Studies--Recreation. Vol. II of V. Estimating Initial Reservoir Recreation Use,
W76-05611 9-12 6B

Significance of Trace Metals and Nitrates in Sludge Soils,
W76-06307 9-13 5E

BROWN, R. L.
Stress Concentration in Sloping Snowpack from Geometric Imperfections,
W76-13061 9-24 2C

BROWN, R. W.
Acid Mine Rehabilitation Problems at High Elevations,
W76-02281 9-05 5B

BROWN, T. C.
Managing Chaparral for Water and Other Resources in Arizona,
W76-06597 9-13 3B

BROWN, T. L.
Problems of Reestablishing Commercial Recreation Businesses in New York Following Hurricane Agnes,
W76-08089 9-15 6F

BROWN, W.
Mode Tides,
W76-00905 9-02 2L

BROWN, W. M. III.
Sediment Transport, Turbidity, Channel Configuration, and Possible Effects of Impound-

ment of the Mad River, Humboldt County, California,
W76-09136 9-17 2J

ROWN, W. R:
Sewer Laying System,
W76-01533 9-04 8

Sewer Laying System,
W76-12605 9-23 8B

ROWNE, M. G.
Polyspecies Aquaculture Systems: The Detrital Trophic Level,
W76-06759 9-13 5C

Polyspecies Aquaculture Systems: The Detrital Trophic Level,
W76-10997 9-20 5C

ROWNELL, H.
The Colorado River Salinity Problem with Mexico,
W76-05194 9-11 5G

ROWNING, J.
Recycle--Reuse, Infall--Outfall, Decisions Confront Science, Public,
W76-12001 9-22 5D

ROWNING, V. D.
Leaf Water Potential and Moisture Balance--Field Data,
W76-13011 9-24 2I

ROWNSTEIN, A. B.
Financial Incentives and Pollution Control. A Case Study,
W76-03270 9-07 5G

ROWZIN, B. S.
Exit of Ground Waters on Drainage Boundaries,
W76-08750 9-16 2F

RUCE, H. E.
Sampling Marine Organisms and Sediments for High Precision Gas Chromatographic Analysis of Aromatic Hydrocarbons,
W76-10401 9-19 5A

RUCE, R.
Treatment and Disposal of Effluent From the Wool Textile Industry,
W76-03095 9-07 5D

RUCE, R. R.
A Model for Runoff of Pesticides from Small Upland Watersheds,
W76-08356 9-16 5B

RUCE, W. N.
Removal of Pesticides by Reverse Osmosis,
W76-01223 9-03 5D

RUCH, J. C. JR.
Applications of Electro-Osmosis to Ground-Water Flow Problems,
W76-03362 9-07 2F

Finite Element Solutions for Unsteady and Unsaturated Flow in Porous Media,
W76-00177 9-01 2G

Finite Element Solutions to Two Groundwater Flow Problems - One Including Dispersion and the Other the Influence of Electro-Osmosis,
W76-03962 9-08 5B

Pollutant Movement Beneath Rivers,
W76-03963 9-08 5B

BRUCH JR, J. C.
The Dispersion of Pollutants Beneath Open Channels,
W76-11443 9-21 5B

BRUEGGEMANN, J.
Pesticide and PCB Residue in Organs of Wild Animals as Indicators of Environmental Contamination, (In German),
W76-09922 9-18 5A

BRUEMMER, G.
Investigations Concerning Mapping and Classifying of Marsh Soils, (In German),
W76-12814 9-24 2G

BRUETSCH, T. F.
Genotype Variation in Nutrient Uptake Efficiency in Corn,
W76-13134 9-24 3F

BRULEY, A. J.
The Pyrolysis of Extracted Solids from Oxidized Kraft Black Liquor After Lignin Precipitation,
W76-07644 9-15 5D

BRUMAGIN, I. S.
Continuous Pressure Filtering and/or Screening Apparatus for the Separation of Liquids and Solids,
W76-03511 9-08 5D

BRUMMAGE, K. G.
The Sources of Oil Entering the Sea,
W76-05136 9-11 5B

BRUNAUS, P.
Operational Characteristics of the DECCA Lambda (6f) Positioning System Over Fresh Water,
W76-06662 9-13 7B

BRUNAVS, P.
Operational Characteristics of the DECCA LAMBDA (6F) Positioning System Over Fresh Water,
W76-07091 9-14 2H

BRUNE, A. W.
Performance of Pennsylvania Highway Drainage Inlets,
W76-03750 9-08 8B

BRUNEAU, M.
A Lake Population: The Intha of Lake Inle. (Southern Shan States, Burma), (In French),
W76-09361 9-17 2H

BRUNER, A.
Decolorize Kraft Bleach Plant Effluents Effectively with Low-Cost Polymeric Adsorption Method,
W76-05288 9-11 5D

BRUNGS, W. A.
Acute and Chronic Toxicity of Copper to the Fathead Minnow in a Surface Water of Variable Quality,
W76-08783 9-17 5C

Effects of Pollution on Freshwater Fish, (Literature Review),
W76-12735 9-24 5C

BRUNINGA, K. J.
Pop-Up Sprinkler with Multiple-Purpose One-Piece Seal,
W76-04268 9-09 3F

BRUNINX, E.
The Analysis of Surface Waters for Iron, Zinc, and Lead by Coprecipitation on Iron Hydroxide and X-Ray Fluorescence,
W76-04760 9-10 5A

BRUNNER, D. R.
Land Disposal of Wastes: Potential for Groundwater Pollution,
W76-10667 9-20 5E

Solid Wastes and Water Quality, (Literature Review),
W76-12933 9-24 5E

BRUNNER, P. G.
Influence of the Local Precipitation Quantity on the Loading of Water Bodies with Mixed Water (Der Einfluss der Oertlichen Neiderschlagshoehe auf die Belastung der Gewaesser Mit Mischwasser),
W76-08258 9-16 5B

Pollution of the Runoff in Separate Sewer Systems, and Measures for the Reduction of Rainwater Runoff-Generated Pollution of Water Bodies (Die Verschmutzung des Abflusses im Trennverfahren Sowie Massnahmen zur Verminderung der Gewaesserverschmutzung Infolge Regenwassereinleitungen),
W76-07997 9-15 5B

BRUSADIN, G.
Water Line,
W76-05541 9-12 3F

BRUSEWITZ, G. H.
Simultaneous Transport of Water and Adsorbed Solutes Through Soil Under Transient Flow Conditions,
W76-00032 9-01 2G

BRUSSERMANN, K.
Possible Future Effects on the Population of the Federal Republic of Germany of Gaseous Radioactive Effluents from Nuclear Facilities,
W76-09499 9-18 5A

BRUSVEN, M. A.
An Evaluation of Squoxin on Insect Drift,
W76-04206 9-09 5A

BRUSYNINA, I. N.
Some Characteristics of Spleen Growth in the Lake Minnow, (In Russian),
W76-10521 9-20 2I

BRUTSAERT, W.
C. E. Jacob's Study on the Prospective and Hypothetical Future of the Mining of the Ground Water Deposited Under the Southern High Plains of Texas and New Mexico,
W76-03363 9-07 4B

More on an Approximate Solution for Nonlinear Diffusion,
W76-00740 9-02 2G

A Theory for Local Evaporation (or Heat Transfer) from Rough and Smooth Surfaces at Ground Level,
W76-00560 9-02 2D

BRUTSAERT, W. F.
Conjunctive Availability of Surface and Ground Water in the Albuquerque Area, New Mexico: A Modelling Approach,
W76-02936 9-06 4B

BRUTSAERT, W. H.
The Determination of Regional Evapotranspiration by Means of Standard Meteorological Data,
W76-11110 9-21 2D

Hydrologic Aspects of Flood Management in the Chemung River Basin,
W76-11106 9-21 2E

BRUUN, P.
Parameters Affecting Stability of Rubble Mounds,
W76-11854 9-22 8B

BRUX, G.
The Construction of an Industrial Waste Water Discharge Pipe System into the Sea (Bau Einer Industrieabwasser-Leitung ins Meer),
W76-07658 9-15 5E

BRYAN, E. H.
Research Needs in the Context of Our Goal to Restore and Maintain the Chemical, Physical, and Biological Integrity of the Nation's Waters,
W76-03832 9-08 5G

BRYAN, F. L.
Diseases Transmitted by Foods Contaminated by Waste Water,
W76-03544 9-08 5C

BRYAN, J. E.
Spawning of Lake Whitefish, Coregonus Clupeaformis, and Round Whitefish, Prosopium Cylindraceum, in Aishihik Lake and East Aishihik River, Yukon Territory,
W76-12754 9-24 2H

BRYAN, M. L.
The Study of Fresh-Water Lake Ice Using Multiplexed Imaging Radar,
W76-08138 9-16 2C

BRYANT, D.
Intertidal Fauna of the Industrialized Forth Estuary,
W76-11818 9-22 5C

BRYANT, W. J.
Water Pollution Aspects from Waste Drilling Mud Disposal in Canada's Arctic,
W76-09334 9-17 5G

BRYCE, J. B.
Thermal Discharge Studies on the Great Lakes-the Canadian Experience,
W76-08869 9-17 5G

BRYZGALOV, L. I.
Modernized Operation of (Effluent) Purification Equipment (Sovershenstvovat' rabotu ochistnykh sooruzhenii),
W76-12511 9-23 5D

BUBENZER, G. D.
Evaluation of a Soil Nitrate Transport Model,
W76-07453 9-15 5B

Impact of Freezing and Thawing Soil Conditions on the Movement of Nutrients From Rural Lands,
W76-00502 9-02 5B

Nutrient Losses from Manure Under Simulated Winter Conditions,
W76-07187 9-14 5B

Nutrient Losses in Surface Runoff From Winter Spread Manure,
W76-12993 9-24 5B

BUCHANAN, D. V.
Acute Toxicities of Spruce and Hemlock Bark Extracts to some Estuarine Organisms in Southeastern Alaska,
W76-11393 9-21 5C

Improved Flowing Water Apparatus for the Culture of Brachyuran Crab Larvae,
W76-03035 9-07 5A

BUCHANAN, D. W.
Antitranspirant Sprays Affecting Fruit Size of Early Amber Peaches,
W76-10725 9-20 3F

Disposition of Water from Fruit Crops and Approaches to Increase Water use Efficiency,
W76-06807 9-14 2D

Peach Irrigation in Florida,
W76-10749 9-20 3F

BUCHANAN, E. B.
The Square-Wave Polarograph and Its Application to the Determination of Heavy Metals in the Environment,
W76-03530 9-08 5A

BUCHANAN, G. W.
Estimation of the Water Hydration in Wintering Wheat Leaves by Proton Magnetic Resonance,
W76-07226 9-14 2I

BUCHANAN, M. A.
Color Characterization of Kraft Linerboard Decker Effluent,
W76-12472 9-23 5A

BUCHANAN, M. F.
San Fracisco Bay and Delta System: A Selected Bibliography,
W76-06912 9-14 2L

BUCHANAN, S. P.
Managing a Successful Liquid Swine Manure Management System,
W76-07180 9-14 5D

BUCHMAIER, R. F.
Application of the Finite Element Method in Foundation Engineering (Die Anwendung der Methode der Finiten Elemente in der Grundbaupraxis),
W76-08423 9-16 8D

BUCK, C. R.
Variable Speed Pumping has many Advantages,
W76-11914 9-22 8C

BUCK, D. H.
An Experiment in the Mixed Culture of Channel Catfish and Largemouth Bass,
W76-01016 9-03 8I

BUCK, J. D.
Biotic Changes in the Willimantic/Shetucket River Associated with Improvements in Sewage Treatment,
W76-04388 9-09 5C

Thermal Effects on the Microbiology and Chemistry of the Connecticut River-A Summary,
W76-02014 9-05 5C

BUCKA, H.
Some Carpathian Reservoirs and Their Production Relations,
W76-01175 9-03 5C

BUCKHOUSE, J. C.
Hydrologic Impact of Burning and Grazing on a Chained Pinyon-Juniper Site in Southeastern Utah,
W76-12153 9-23 4C

Water Quality Implications of Cattle Grazing on a Semiarid Watershed in Southeastern Utah,
W76-10171 9-19 5G

BUCKINGHAM, S.
A Procedure for Estimating Gross Production, Net Production, and Algal Carbon Content Using 14C,
W76-12944 9-24 5C

BUCKLEY, D. B.
A Statistical Documentation of the Performance of Activated Sludge and Aerated Stabilization Basin Systems Operating in the Paper Industry,
W76-00047 9-01 5D

BUCKLEY, D. E.
Supershrimp: Deep Bioturbation in the Strait of Canso, Nova Scotia,
W76-11584 9-21 5C

BUCKLEY, J. A.
Changes in Blood Chemistry and Blood Cell Morphology in Coho Salmon (Oncorhynchus Kisutch) Following Exposure to Sublethal Levels of Total Residual Chlorine in Municipal Wastewater,
W76-08442 9-16 5C

BUCKNER, H. D.
Hydrologic Data for Mountain Creek, Trinity River Basin, Texas, 1974,
W76-09829 9-18 7C

BUCKNER, M. R.
Pollutant Transport in Natural Streams,
W76-08329 9-16 5B

BUCKNEY, R. T.
Pollution of a Tasmanian River by Mine Effluents: I. Chemical Evidence,
W76-07704 9-15 5B

BUCURENCIU, V.
Rapid Determination of NO3 in Water, (In Romanian),
W76-11559 9-21 5A

BUCZEK, J.
The Influence of Gibberellic Acid and Kinetin on the Growth of Scenedesmus Quadricauda (Turp.) Breb.,
W76-12941 9-24 5C

BUDD, W. F.
Antarctic Sea-Ice Variations from Satellite Sensing in Relation to Climate,
W76-05398 9-11 7B

Radio-Echo Sounding of the Lambert Glacier Basin,
W76-05380 9-11 2C

BUDDE, W. L.
Analysis of the Polychlorinated Biphenyl Problem, Application of Gas Chromatography-Mass Spectrometry with Computer Controlled Repetitive Data Acquisition from Selected Specific Ions,
W76-07709 9-15 5A

Analytical Quality Assurance for Trace Organics Analysis by Gas Chromatography/Mass Spectrometry,
W76-06648 9-13 5A

UDSON, S. D.
Lobster Nutrition: Effect on Homarus Americanus of Dietary Protein Levels,
W76-07969 9-15 5C

UEHLER, B.
Monetary Values of Life and Health.
W76-05812 9-12 6F

Upstream Flood Lowering in Reservoirs,
W76-10938 9-20 4A

UEHRER, H.
The Technique of Removing Large Undisturbed Samples of Lake Sediment: An Improved Bore Plumb, (In German),
W76-06776 9-13 2J

UELA, Y. J.
Effects of a Waste of 'Paper Kraft' on the Benthic Algal Populations in N.W. Spain. 'Stress' on the Fucaceae Standing Crop, (In Spanish),
W76-12327 9-23 5C

UELL, R. E.
Measurements of Eddy Diffusivities in Nearshore Regions of Lake Michigan,
W76-12772 9-24 5B

UELOW, R. W.
Nitrate Removal by Anion-Exchange Resins,
W76-01562 9-04 5D

UERGI, H.
The Effects of NTA on the Growth of Phytoplankton with Particular Consideration Given to Iron as a Microelement,
W76-11578 9-21 5C

UETTNER, H. F.
Low Sulfide Unhairing and its Advantages for the Tanner,
W76-04292 9-09 5D

UETTNER, M.
Heavy Metal Content in the Sediments of the Southern Part of the Coeur D'Alene Lake,
W76-07394 9-14 2H

Heavy Metal Pollution in the Sediments of the Coeur D'Alene River Delta,
W76-04091 9-09 5A

UGBEE, S. L.
Progress Report: Blue Springs Lagoon Study, Blue Springs, Missouri,
W76-05323 9-11 5D

UGG, P.
Project Evaluation During Inflation,
W76-02444 9-05 6B

UGLIARELLO, G.
Panel on Discipline Summaries and Outlooks,
W76-00080 9-01 6A

UHATEL, T.
The Hygienic Quality of the Water in a Growing-Finishing Piggery, (In Romanian),
W76-09883 9-18 5B

UHRER, H.
Discharge of Treated Waste Water in Lakes (Die Einleitung Von Gereinigtem Abwasser in Seen),
W76-09216 9-17 5B

UIE, E. C.
Future Water Policies,
W76-01617 9-04 6E

BUIKEMA, A. L.
Some Effects of Light on the Energetics of Daphnia Pulex and Implications for the Significance of Vertical Migration,
W76-04595 9-10 5C

BUIKEMA, A. L. JR.
A Screening Bioassay Using Daphnia Pulex for Refinery Wastes Discharged into Freshwater,
W76-09653 9-18 5A

BUKINA, A. P.
Hygienic Substantiation of the Maximum Permissible Concentration of Hydrogen Peroxide in Surface Waters, (In Russian),
W76-12315 9-23 5A

BUKOVSKAYA, S. N.
Distribution of Bdellovibrio Bacteriovorus in Surface Waters and Its Role in Self-Purification Processes, (In Russian),
W76-07024 9-14 5B

BULKAI, L.
How Many Wastewater Treatment Plants are Necessary in Regional Sewer Systems. (Hany szennyviztisztito telep legyen a regionalis caatornaerndszeben).
W76-01429 9-03 5D

BULKAY, L.
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W76-00561 9-02 5D

BULKLEY, J. W.
An Innovative Organizational Arrangement for Comprehensive Water Services: The Thames Water Authority as a Model for Complex Areas of the Great Lakes,
W76-01815 9-04 6E

Probability Models of Wastewater Treatment Plant Operation,
W76-09210 9-17 5D

BULKLEY, R. V.
A Study of the Effects of Stream Channelization and Bank Stabilization on Warm Water Sport Fish in Iowa: Subproject I Inventory of Major Stream Alterations in Iowa,
W76-12234 9-23 4C

A Study of the Effects of Stream Channelization and Bank Stabilization on Warmwater Sport Fish in Iowa: Subproject 2. A Study of the Impact of Selected Bank Stabilization Structures on Game Fish and Associated Organisms,
W76-12233 9-23 4C

Warm Water Stream Alteration in Iowa: Extent, Effects on Habitat, Fish, and Fish Food, and Evaluation of Stream Improvement Structures (Summary Report),
W76-12235 9-23 4C

BULL, C.
Climatological Implications of Microparticle Concentrations in the Ice Core from 'Byrd' Station, Western Antarctica,
W76-07551 9-15 2C

BULL, W. B.
Allometric Change of Landforms,
W76-03384 9-07 4A

Land Subsidence Due to Ground-Water Withdrawal in the Los Banos-Kettleman City Area, California: Part 1.Changes in the Hydrologic Environment Conductive to Subsidence,
W76-01192 9-03 4B

BULLA, L. A.
A New Stratified Plankton Sampler for Shallow Waters, (In Spanish),
W76-09193 9-17 7B

BULLER, A. T.
The Role of Organic Detritus in the Formation of Distinctive Sandy Tidal Flat Sedimentary Structures, Tay Estuary, Scotland,
W76-08524 9-16 2L

BULLER, W.
Reassessment of Mercury in Surface Water in the Adirondack Region, New York,
W76-08554 9-16 2K

BULLEY, N. R.
Biological Treatment of Egg Processing Wastewater,
W76-04753 9-10 5D

BULLOCK, G. L.
An Acute Septicaemic Disease of Brown Trout (Salmo Trutta) and Atlantic Salmon (Salmo Salar) Caused by a Pasteurella-Like Organism,
W76-12332 9-23 5C

BULSON, M. E.
Colorado River Salinity Problem: Has a Solution Been Found,
W76-05200 9-11 6E

BULTENA, G. L.
Community Values and Collective Action in Reservoir Development,
W76-04015 9-09 6B

BULTOT, F.
Conceptual Hydrological Model for an Average-Sized Catchment Area, II. Estimate of Parameters, Validity of Model, Application,
W76-09580 9-18 2A

Conceptual Hydrological Model for an Averaged-Sized Catchment Area, I. Concepts and Relationships,
W76-09579 9-18 2A

BULUSU, K. R.
Defluoridation of Water by Nalgonda Technique,
W76-01543 9-04 5F

BUMBU, Y. V.
Removal of Trace Elements by the Dnestr River, (In Russian),
W76-13197 9-24 5G

BUMSTEAD, J. C.
Comprehensive Water Supply Study for New York State,
W76-10982 9-20 6B

BUNCH, R. L.
Biological Filters, (Literature Review),
W76-12674 9-23 5D

BUNDGAARD-NIELSEN, M.
A Review on Decision Models in Economics of Regional Water Quality Management,
W76-10195 9-19 5G

BUNDY, L. G.
Control of Nitrogen Transformations in Soils,
W76-03141 9-07 5B

BUNICH, P.
The Economics of Developing the Resources of the World's Oceans,
W76-10587 9-20 6B

BUNTING, A. H.
Rainfall Trends in the West African Sahel,
W76-09269 9-17 2B

BUOL, S. W.
Some Effects of Fertilization on Mineral Cycling in Loblolly Pine,
W76-10323 9-19 5C

BURAS, N.
The Cost-Effectiveness of Water Resources Systems Considering Inadequate Hydrological Data,
W76-09626 9-18 6A

BURBANK, N. C. JR.
Mililani Town Wastewater Reclamation and Recycling Project,
W76-01764 9-04 5D

BURCH, A. M.
Effects of Cage Culture of Catfish Upon Water Quality in Reservoirs,
W76-07585 9-15 5B

BURCH, R. H.
Modern Techniques of Waste Detection,
W76-09685 9-18 5F

BURCHARD, C-H.
Performance Comparison Survey of the Public Sewage-Treatment Plants in Baden-Wuerttemberg 1975 (Leistungsvergleich Fuer Klaeranlagen 1975 in Baden-Wuerttemberg),
W76-12618 9-23 5D

BURCHELL, C.
An Evaluation of Some Recreational, Demographic and Economic Impacts of Canyon Lake,
W76-05506 9-12 6B

BURCHINAL, J. C.
Runoff Studies on Small Watersheds,
W76-07673 9-15 2A

BURDGE, R. V.
A Summary of Sociological Studies of Water Resources Dealing with Social Goals and the Quality of Life: 'The Strawman' and Other Studies,
W76-05361 9-11 6B

BURDICK, J. C. III.
A New Concept in Sludge Filtration Theory for Industrial Application,
W76-05114 9-11 5D

BUREN, W. P.
Informer Fees Under the Refuse Act: Deciding who gets What,
W76-01392 9-03 6E

BURFITT, M. L.
The Performance of Full-Scale Sludge Flotation Plant,
W76-00267 9-01 5D

BURFORD, J. B.
Shale Chiseling-Effect on Water Yield,
W76-06924 9-14 3B

BURGASOV, P. N.
Ecology of Cholera Vibrios, (In Russian),
W76-09409 9-18 5C

BURGE, W. D.
A Forced Aeration System for Composting Wastewater Sludge,
W76-11200 9-21 5E

Trench Incorporation of Sewage Sludge in Marginal Agricultural Land,
W76-02072 9-05 5D

BURGES, S. J.
Dynamic Water Quality Management Strategies,
W76-03158 9-07 5G

Operational Comparison of Stochastic Streamflow Generation Procedures,
W76-04727 9-10 2E

Use of State Estimation Techniques in Water Resource System Modeling,
W76-07143 9-14 5B

BURGESS, J. S.
Bacterial Pollution in Lake Burley Griffin,
W76-05407 9-11 5C

BURGOS, J. J.
Drought and Agriculture,
W76-06265 9-13 2B

BURIKS, R. S.
Use of Polymeric Quaternary Ammonium Betaines as Water Clarifiers,
W76-05544 9-12 5F

BURIN, G. S.
Intensification of Biological Purification of Effluents (Intensifikatsiya biologicheskoi ochistki stokov),
W76-11391 9-21 5D

BURKE, C. M.
Wastewater Recycle for Dye Houses,
W76-05336 9-11 5D

BURKE, D. J.
Wastewater Recycle for Dye Houses,
W76-05336 9-11 5D

BURKE, G. A.
An Improved Method for the Isolation of Phenols from Water,
W76-08026 9-15 5A

BURKE, J. C.
Distributions of Transuranium Nuclides in Sediment and Biota of the North Atlantic Ocean,
W76-08602 9-16 5B

BURKE, T.
Upgrading Primary Treatment with Chemicals and Water Treatment Sludge,
W76-06286 9-13 5D

BURKE, W. D.
An Estimate of Total Surface Area of Vegetation for Pukeiti Catchment, Northland, New Zealand,
W76-03360 9-07 4D

BURKE, W. J.
Results of Soil Moisture Flights During April 1974,
W76-13178 9-24 2G

BURKE, W. T.
Contemporary Law of the Sea: Transportation, Communication and Flight,
W76-07368 9-14 6E

Scientific Research Articles in the Law of the Sea Informal Single Negotiating Text,
W76-07825 9-15 6E

BURKHAM, D. E.
Flow from Small Watersheds Adjacent to the Study Reach of the Gila River Phreatophyte Project, Arizona,
W76-11677 9-22 2E

Hydraulic Effects of Changes in Bottom-Land Vegetation on Three Major Floods, Gila River in Southeastern Arizona,
W76-08050 9-15 4C

Proposed Revision to the Modified Einstein Method of Computing Total Sediment Discharge,
W76-09842 9-18 2J

BURKHOLDER, J.
Pressure Sewage System and Means,
W76-00579 9-02 5D

BURKOV, S. V.
Intensification of the Biochemical Purification of Phenolic Waste Waters in Aeration Tanks (Intensifikatsiya biokhimicheskoy ochistki fenolsoderzhashchikh stochnykh vod v aerotenkakh),
W76-05491 9-11 5D

BURKSTALLER, J. E.
Oxidation of Cinnabar by FE (III) in Acid Mine Waters,
W76-01099 9-03 2K

BURMAN, B. G.
Needed: A Ground-Water Treaty Between the United States and Mexico,
W76-03918 9-08 4B

BURMAN, R. D.
Changes in Climate and Estimated Evaporation Across a Large Irrigated Area in Idaho,
W76-06406 9-13 2D

Intercontinental Comparison of Evaporation Estimates,
W76-08800 9-17 2D

Soil Temperature Modeling Using Air Temperature as a Driving Mechanism,
W76-01079 9-03 7B

BURNASH, R. J. C.
Forecasts for the Sacremento River System,
W76-09967 9-18 2E

A Generalized Streamflow Simulation System, Conceptual Modeling for Digital Computers,
W76-06634 9-13 2A

BURNETT, E.
Losses of Nitrogen in Surface Runoff in the Blackland Prairie of Texas,
W76-12982 9-24 5G

Nitrate and Chloride Leaching in a Swelling Clay Soil,
W76-00724 9-02 5B

BURNETT, W. E.
Rum Distillery Wastes: Laboratory Studies on Aerobic Treatment,
W76-08469 9-16 5D

BURNHAM, C. D.
Environmental Control in Plants at Minimum Cost,
W76-13056 9-24 5D

BURNHAM, J. B.
A Technique for Environmental Decision Making Using Quantified Social and Aesthetic Values,
W76-05825 9-12 5G

URNS, A. W.
Evaluation of Data Availability and Examples of Modeling for Ground-Water Management on Cape Cod, Massachusetts,
W76-05856 9-12 4B

Simulated Effects of the Proposed Narrows Reservoir on the Water-Table Aquifer Along the South Platte River, Morgan County, Colorado,
W76-11687 9-22 4B

URNS, B. C.
Method and Apparatus for Conveying Sewage,
W76-00844 9-02 5D

URNS, B. R.
Plastic Particles in Surface Waters of the Northwestern Atlantic,
W76-11889 9-22 5B

URNS, C. V.
Physical and Climatic Characteristics Along Kansas Streams,
W76-06450 9-13 7C

URNS, C. W.
Differences in Chemical Composition Between Two Species of Daphnia and Some Freshwater Algae Cultured in the Laboratory,
W76-06713 9-13 5C

URNS, D. E.
Phosphorus Removal from Wastewater,
W76-08994 9-17 5D

URNS, L. A.
Ecosystems Analysis of the Big Cypress Swamp and Estuaties,
W76-10046 9-19 6G

URNS, N. M.
Bacteria and Phosphorus as Indicators of the Extent of a Large Sewage Spill in Lake Erie,
W76-11315 9-21 5A

Forms of Iron and Manganese in Lake Erie Waters,
W76-08528 9-16 5B

Oxygen Depletion in the Central and Eastern Basins of Lake Erie, 1970,
W76-09263 9-17 5C

Temperature, Oxygen, and Nutrient Distribution Patterns in Lake Erie, 1970,
W76-09262 9-17 5B

URNSZYTNSKY, T. A.
Raw Sewage Coagulation and Aerobic Sludge Digestion,
W76-12859 9-24 5D

URRELL, D. C.
Environmental Studies of an Arctic Estuarine System,
W76-02075 9-05 2L

URRELL JR, V. G.
A New Device For Subsampling Plankton Samples,
W76-09396 9-17 7B

URRIS, J. W.
The Effects of Variations in Turbidity on Cycles of Planktonic and Benthic Organisms in Flood Control Reservoirs,
W76-11172 9-21 5C

URRIS, M. A.
Softening and Coagulation Sludge-Disposal for a Surface Water Supply,
W76-10252 9-19 5F

BURRIS, R. W.
The Emergency Marine Fisheries Protection Act of 1974, S 1988,
W76-03623 9-08 6E

BURSTON, U. T.
Water Resources in Northumbria with Particular Reference to the Kiedler Water Scheme,
W76-03824 9-08 6E

BURSZTYNSKY, T. A.
Treatment of Combined Sewer Overflows by Dissolved Air Flotation,
W76-02074 9-05 5D

BURT, R. J.
Availability of Ground Water for Irrigation on the Kekahamana Coastal Plain, Island of Kauai, Hawaii,
W76-08054 9-15 4B

BURT, W. V.
A Comparison of the Responses of Identical Cup Anemometers Mounted on a Spar and a Toroid Buoy,
W76-06392 9-13 7B

BURTCH, J. W.
The Pori Process: Regeneration of Hydrochloric Acid from Spent Pickle Liquor,
W76-07752 9-15 5D

BURTON, D. T.
A Respirometer Technique for Evaluating the Potential Effects of Rapid Thermal Changes to Small Aquatic Organisms,
W76-01920 9-04 5C

BURTON, R. A.
Relationship of Duration of Flows and Selected Watershed Parameters to the Standing Crop Estimates of Trout Populations,
W76-00674 9-02 4D

BURTON, T. M.
The Effect of urban Land Use on Nutrient and Suspended-Solids Export from North Florida Watersheds,
W76-10331 9-19 4C

The Impact of Highway Construction on a North Florida Watershed,
W76-10945 9-20 5B

BURWELL, J. B.
Drought Resistance of Blue Grama as Affected by Atrazine and N. Fertilizer,
W76-13122 9-24 2I

BURWELL, R. E.
Precipitation Nitrogen Contribution Relative to Surface Runoff Discharges,
W76-00729 9-02 5B

Sampling and Calculation Methods for Determining Quantities of Nitrogen and Phosphorus in Watershed Runoff,
W76-12372 9-23 5A

Sampling Procedures for Nitrogen and Phosphorus in Runoff,
W76-04681 9-10 5A

BURWOOD, R.
Photooxidation as a Factor in the Environmental Dispersal of Curde Oil,
W76-09389 9-17 5B

BUSALAYEV, I. V.
On Applying the Principle of Maximum Entropy to Hydrological Problems and Runoff Forecasting (O Primenenii Printsipa Maksimuma Entroppi v Zadachakh Girdologii i Prognozirovaniya Stoka),
W76-00804 9-02 4A

BUSBY, F. E.
Hydrologic Impact of Burning and Grazing on a Chained Pinyon-Juniper Site in Southeastern Utah,
W76-12153 9-23 4C

BUSBY, M. W.
Flood-Hazard Study--100-Year Flood Stage for Apple Valley Dry Lake, San Bernardino County, Californai,
W76-00659 9-02 4A

BUSCH, D. A.
Tube-Worm-Sediment Relationships in Populations of Pectinaria Gouldii (Polychaeta: Pectinariidae) from Barnegat Bay, New Jersey,
W76-10061 9-19 2L

BUSCH, J. R.
Establishing Water, Nutrient and Total Solids Mass Budgets for a Gravity-Irrigated Farm,
W76-13015 9-24 3F

Factors Influencing the Loss of Nitrogen and Phosphorus from a Tract of Irrigated Land,
W76-13014 9-24 5G

Socioeconomic Analysis of a Major Rehabilitation of Irrigation and Water Management Systems in Eastern Idaho,
W76-06161 9-13 3F

BUSCH, K-F.
Problems Related to the Renewed Groundwater Level Rise in Previous Mining Areas as Illustrated by the Southern Lusatia Example (Probleme des Grundwasserwiederanstiegs in Ehemrligen Bergbaugebieten am Beispiel der Sued-Lausitz),
W76-07663 9-15 5B

BUSCH, L.
Pesticide and PCB Residue in Organs of Wild Animals as Indicators of Environmental Contamination, (In German),
W76-09922 9-18 5A

BUSCH, W-D. N.
Environmental Factors Affecting the Strength of Walleye (Stizostedion Vitreum Vitreum) Year-Classes in Western Lake Erie, 1960-70,
W76-03653 9-08 5C

BUSH, K. E.
Refinery Wastewater Treatment and Reuse,
W76-07759 9-15 5D

BUSH, V. H.
The Rapid Quantitation of the Filamentous Blue-Green Alga Plectonema Boryanum by the Luciferase Assay for ATP,
W76-01158 9-03 5C

BUSLER, I. V.
Collector-Analyzer for Continuous Automatic Recording of the Temperature, pH, and Electric Conductivity of Atmospheric Precipitation,
W76-04960 9-10 2B

BUSSE, E.
Acid Drainage Control and Water Treatment at Heath Steele,
W76-07512 9-15 5D

BUSSE, O.
Apparatus for Continuous Dewatering of Aqueous Suspensions,
W76-08202 9-16 5D

BUSSON, C.
Process for the Treatment of Waste Waters Containing Sulfuric Acid and/or Ammonium Sulfate,
W76-06470 9-13 5D

BUTCHER, W. R.
Model Development and Systems Analysis of the Yakima River Basin, Economic Modeling,
W76-04515 9-10 6A

BUTCHER, W. S.
OWRT Interest in New Technologies for Water Treatment,
W76-10677 9-20 5G

BUTLER, B. E.
Sludge Dewatering Trials at Banbury,
W76-05809 9-12 5D

BUTLER, D. E.
Moisturizing Apparatus for Use with Wind Machines,
W76-08399 9-16 3F

BUTLER, E. I.
Recent Cyclic Changes in Climate and in Abundance of Marine Life,
W76-12747 9-24 5C

BUTLER, G. L.
Effects, Uptake and Metabolism of Methoxychlor, Mirex, and 2,4-D in Seaweeds,
W76-11189 9-21 5C

BUTLER, H. L.
Effect of Source Orientation and Location in the Aleutian Trench on Tsunami Amplitude Along the Pacific Coast of the Continental United States,
W76-07464 9-15 8B

BUTLER, J. D.
Salt Tolerance and Suitability of Various Grasses for Saline Roadsides,
W76-08764 9-17 3C

BUTLER, J. N.
Equilibria in Aqueous Solutions of Chlorinated Isocyanurate,
W76-00116 9-01 5F

The Occurance and Amount of Pelagic Tar in the Open Ocean,
W76-11008 9-20 5B

Petroleum Residues in the Sargasso Sea and on Bermuda Beaches,
W76-09315 9-17 5C

Quantitative Monitoring and Variability of Pelagic Tar in the North Atlantic,
W76-10378 9-19 5B

BUTLER, P.
Sewage and Effluent-Chemical Engineering Developments on the Way,
W76-00255 9-01 5D

BUTLER, R. M.
Grass Filtration for Final Treatment of Wastewater,
W76-03558 9-08 5D

BUTLER, W. E.
The Freedom of Navigation Under International Law,
W76-12009 9-22 6E

BUTTER, S. A.
Sorbent for Removal of Heavy Metals,
W76-04189 9-09 5D

BUTTERWORTH, D. J.
Performance Histories of Boiler Feedwater Plants Highlight the Advantages of Reverse Osmosis,
W76-02473 9-05 5D

BUTTLER, G. W.
Analysis for Aqueous Nitrates and Nitrites and Gaseous Oxides of Nitrogen by Electron Capture Gas Chromatography,
W76-03707 9-08 5A

BUTTON, D.
Hydrocarbon Biodegradation Kinetics,
W76-05151 9-11 5B

BUTTS, S. A. III.
Marine Pollution Control and Man-Made Islands,
W76-00966 9-02 6G

BUTZ, B. P.
A Methodology to Measure the Performance of the EPA Regional EIS Review Process,
W76-12583 9-23 6G

Ohio River Cooling Water Study,
W76-10414 9-19 5C

BUTZ, T.
Heavy Metal (Cu, Pb, Zn, Cd, Ni, As, Hg) Additions to Surface Waters, Streams Sediments and Selected Aquatic Life in the Meramec Park Reservoir Drainage Basin, Missouri,
W76-01686 9-04 5B

BUXTON, B.
An Economic Appraisal of Alternative Dairy Waste Management Systems Designed for Pollution Control,
W76-10547 9-20 5D

BUXTON, B. M.
Implications of Selected Non-Point Source Pollution Regulations for U.S. Dairy Farms,
W76-07162 9-14 5G

BUXTON, K. S.
Chronic Toxicity of Atrazine to Selected Aquatic Invertebrates and Fishes,
W76-10517 9-20 5C

Chronic Toxicity of Lindane to Selected Aquatic Invertebrates and Fishes,
W76-10895 9-20 5C

BUYANOV, N. I.
Concentration of Cesium-137 in Aquatic Organisms, Water and Bottom Deposits of Water Bodies with a Different Mineral Compositions of the Water, (In Russian),
W76-09410 9-18 5C

Investigations on the Adsorption of Co60 and Cs137 on Surfaces of Brown Algae and Glass Under Experimental Conditions,
W76-06902 9-14 5C

Sr90 and Cs137 in Surface Waters of the Baltic, North, Irish, and Norway Seas,
W76-06889 9-14 5B

BUZAN, B. G.
Canada at the Third Law of the Sea Conference: Policy, Role, and Prospects,
W76-06827 9-14 6E

BUZZARD, M.
Zooplankton Production in Lake Ontario as Influenced by Environmental Perturbations,
W76-02502 9-06 5C

BYBORDI, M.
Effect of Abrupt Textural Change on Potential Profiles During Steady-State Infiltration,
W76-01853 9-04 2G

BYE, J. A. T.
A Theoretical Model of the Flow in the Mouth of Spencer Gulf, South Australia,
W76-03376 9-07 2L

BYERLEY, J. J.
Reduction of Toxicity of Aqueous Solutions,
W76-02992 9-06 5D

BYERSTAW, I. I.
Yield and Removal of Nutrients by Oat Plants Depending on Fertilizer Rates and Soil Moisture Content, (In Belorussian),
W76-10962 9-20 3F

BYKOVSKII, V. I.
Effect of Water Movement on Viability of Microcystis Aeruginosa Kutz. Emend. Elenk, (In Russian),
W76-01919 9-04 2I

BYKOWSKI, M. J.
Phosphorus Removal from Waste Water,
W76-08975 9-17 5D

BYRAM, K. V.
Environmental Trace Materials: Computer Coupled Radioactivation Analysis,
W76-12712 9-24 5A

BYRKETT, D. L.
Effects of Environmental Legislation of Cattle Feedlot Location,
W76-07159 9-14 5G

BYRNE, B.
PVC Pipe Cuts Colorado District's Flow Cost,
W76-01063 9-03 8G

BYRNE, R. J.
Applications of Remote Sensing to Estuarine Problems,
W76-13184 9-24 2L

Remote Sensing Applications in Marine Science Programs at Vims,
W76-01839 9-04 7B

BYSTROV, N. N.
Sediment Reservoirs in the Channels of Small Mountain Rivers,
W76-06177 9-13 2J

BYSTROVA, T. A.
Reduction of Effluent Volume and Fresh Water Consumption (Snizhenie ob'ema ctochnykh vod i raskhoda svezhej vody),
W76-05727 9-12 3E

BYSZEWSKI, W.
Increasing Intensification of Plant Production and the Problem of Changes in the Natural Environment,
W76-00766 9-02 5B

CABASSO, I.
Research and Development of NS-1 and Related Polysulfone Hollow Fibers for Reverse Osmosis Desalination of Seawater,
W76-03257 9-07 3A

CABEJSZEK, I.
Limnological Character of Experimental Reservoirs Treated with Tritox 30% (DDT, DMDT, GAMMA HCH),
W76-06012 9-12 5C

ABLE, D. R.
Influence of Precipitation on Perennial Grass Production in the Semidesert Southwest,
W76-00195 9-01 4A

Vegetation Responses to Grazing, Rainfall, Site Condition, and Mesquite Control on Semidesert Range,
W76-02663 9-06 2I

ABRERA, G.
Dynamic Response of Aquifer Systems to Localized Recharge,
W76-08520 9-16 2F

A Finite Element Model of Contaminant Movement in Groundwater,
W76-09253 9-17 5B

ACHOLA, R.
Several Aspects of Bacteriologic Pollution in Mollusk-Producing Waters of Algarve, (In French),
W76-07293 9-14 5C

ADOTTE, J. E.
Continued Evaluation of In-Situ-Formed Condensation Polymers for Reverse Osmosis Membranes,
W76-08116 9-16 3A

In Situ-Formed Condensation Polymers for Reverse Osmosis: Second Phase,
W76-03151 9-07 3A

In-Situ-Formed Condensation Polymers for Reverse Osomsis Membranes-Final report,
W76-03259 9-07 3A

Reverse Osmosis Membrane,
W76-05029 9-11 3A

CAGLE, J. W.
Improved Liquid-Solids Separation by an Aluminum Compound in Activated Sludge Treatment,
W76-12867 9-24 5D

CAHET, G.
Energy Transfer in Sedimentary Environments: The Case of Sulfatoreducers: I. The Organic Acids in Lagoon and Marine Sediments (Golfe du Lion), (In French),
W76-08718 9-16 5C

CAHILL, T. A.
Air Quality in the Lake Tahoe Basin,
W76-07797 9-15 5A

CAHN, R.
Public Perception of Pollution Control,
W76-07690 9-15 5G

CAILAUD, A.
Apparatus for the Prevention of Scaling in Desalination Apparatus,
W76-13154 9-24 3A

CAILLE, A.
Pre-Impoundment Site Preparation: A Study of the Effects of Topsoil Stripping on Reservoir Water Quality,
W76-09117 9-17 4C

CAIN, B. W.
The Impact of Canyon Dam and Reservoir on Wildlife,
W76-05504 9-12 6G

Reservoir Impact Study,
W76-04501 9-10 6B

CAIN, D.
Impact of Argo Tunnel Acid Mine Drainage, Clear Creek County, Colorado,
W76-06943 9-14 5G

The Relation Between Water Chemistry and Mineral Zonation in the Central City Mining District, Colorado,
W76-06955 9-14 5B

CAIN, D. E.
Determination of R-Z Relationships for Weather Radar Using Computer Optimization Techniques,
W76-06604 9-13 2B

Effects of Cloud Seeding on Summertime Precipitation in North Dakota,
W76-06603 9-13 3B

The Potential for Rainfall Increases from Convective Clouds in the Northern Plains,
W76-06607 9-13 3B

CAIN, J. M.
Phosphorus in Our Environment,
W76-01019 9-03 5B

CAIN, T. D.
Reproduction and Recruitment of the Brackish Water Clam Rangia Cuneata in the James River, Virginia,
W76-12728 9-24 5C

CAINE, N.
A Uniform Measure of Subaerial Erosion,
W76-12191 9-23 2J

CAIRNS, J. JR.
Body Temperature Change of Bluegill Sunfish Subjected to Thermal Shock,
W76-00865 9-02 5C

Considerations on the Effects of High Temperatures on Algae and Fishes, A Literature Review, 1954,
W76-10055 9-19 5C

The Effects of Temperature Upon the Toxicity of Chemicals to Aquatic Organisms,
W76-03413 9-07 5C

A Field Evaluation of the Effects of Heated Discharges on Fish Distribution,
W76-08088 9-15 5C

Problems in Performing Environmental Assessments,
W76-07217 9-14 6G

Research on the Marine Food Chain.
W76-08935 9-17 5C

A Screening Bioassay Using Daphnia Pulex for Refinery Wastes Discharged into Freshwater,
W76-09653 9-18 5A

Summer Distribution of Fish Species in the Vicinity of a Thermal Discharge New River, Virginia,
W76-12717 9-24 5C

Temperatures Selected and Avoided by Fish at Various Acclimation Temperatures,
W76-10885 9-20 5C

CAIRNS JR, J.
Laboratory and Field Temperature Preference and Avoidance Data of Fish Related to the Establishment of Standards,
W76-07494 9-15 5C

Temperature Influence on Chemical Toxicity to Aquatic Organisms,
W76-08934 9-17 5C

CALANDRA, J. C.
Toxicity of Polydimethylsiloxanes in Certain Environmental Systems,
W76-10348 9-19 5C

CALDERARO, E.
Possible use of High-Level Radiation for the Degradation of Some Substances Present in Urban and Industrial Waters,
W76-09533 9-18 5D

CALDERONI, A.
An Ecologic Survey of Lake Endine, (In Italian),
W76-08244 9-16 5C

Hydrologic and Chemical Analysis of the Principal Piedmontese Tributaries of Lago Maggiore in Relation to its Trophic Modifications, (In Italian),
W76-09576 9-18 5C

CALDWELL, D. L.
Recovery of Kraft White Liquor,
W76-07637 9-15 5D

CALDWELL, D. R.
A Freely Falling Probe for Small-Scale Temperature Gradients,
W76-04949 9-10 2H

CALDWELL, H. H.
Boise Post-Audit Study, Economic and Ecological History Support Study,
W76-02374 9-05 6B

CALDWELL, J. C.
The Sahelian Drought and Its Demographic Implications,
W76-09486 9-18 6G

CALDWELL, R. S.
Chlorinated Pesticides and Polychlorinated Biphenyls in Marine Species, Oregon/Washington Coast, 1972,
W76-08359 9-16 5A

Improved Flowing Water Apparatus for the Culture of Brachyuran Crab Larvae,
W76-03035 9-07 5A

CALELLO, F. JR.
Shipboard Oil-in-Water Content Monitor Based on Small Angle Forward Light Scattering,
W76-13094 9-24 5G

CALHOUN, T. P.
Longevity of Sewer Grout Under Severe Conditions,
W76-01462 9-03 8G

CALHOUN, W. F.
Summer Distribution of Fish Species in the Vicinity of a Thermal Discharge New River, Virginia,
W76-12717 9-24 5C

CALI, M. A.
A Continuous Review Inventory Model for Irrigation Water Application,
W76-05019 9-11 3F

CALKINS, D. J.
Arching of Fragmented Ice Covers,
W76-08149 9-16 2C

CALKINS, D. J.

Simulated Snowdrift Patterns--Evaluation of Geometric Modeling Criteria for a Three Dimensional Structure,
W76-04313 9-09 2C

CALL, D. H.
Mini Sewage Treatment System,
W76-02216 9-05 5D

CALLAHAN, G. W.
Legal Institutions for the Allocation of Water and Their Impact on Coal Conversion Operations in Kentucky,
W76-11489 9-21 6E

CALLAHAN, J. A.
Ground-Water Data for Carroll County, Mississippi,
W76-09141 9-17 7C

Public and Industrial Water Supplies in Southern Mississippi--1974,
W76-02148 9-05 4A

CALLAHAN, M. W.
Biological Denitrification and its Application in Treatment of High-Nitrate Waste Water,
W76-05792 9-12 5D

CALLEN, J.
A Proposed Methodology for Assessing Alternative Technologies,
W76-13049 9-24 6G

CALLERY, R. L.
Remote Control of Combined Sewer Overflows,
W76-11630 9-22 5D

CALLEY, G.
Gallium Arsenide Waste Treatment Method,
W76-07655 9-15 5D

CALLOWAY, J. A.
An Economic Model of Water Use and Waste Treatment,
W76-05814 9-12 5D

An Integrated Power Process Model for Ethylene Production,
W76-04554 9-10 5D

An Integrated Power Process Model of Water Use and Waste Water Treatment in Chlor-Alkali Production,
W76-00707 9-02 5D

An Integrated Power Process Model of Water Use and Wastewater Treatment in Ammonia Production,
W76-01234 9-03 5D

CALMON, C.
Detection Devices for Use in Solution Processing Systems,
W76-05532 9-12 5F

CALOMIRIS, J. J.
Petroleum Hydrocarbons: Degradation and Growth Potential for Atlantic Ocean Sediment Bacteria,
W76-10068 9-19 5C

CALOW, P.
The Respiratory Strategies of two Species of Freshwater Gastropods (Ancylus Fluviatilis Mull and Planorbis Contortus Linn) in Relation to Temperature, Oxygen Concentration, Body Size and Season,
W76-10889 9-20 5C

CALVERT, C. C.
Biodegrading Poultry Excreta with House Fly Larvae: The Concept and Equipment,
W76-11053 9-20 5D

CALVERT, D. V.
Nitrate, Phosphate, and Potassium Movement into Drainage Lines under Three Soil Management Systems,
W76-08680 9-16 5B

CALVERT, J. T.
Disposal of Sewage from Coastal Towns: The Case for Sea Outfalls,
W76-10224 9-19 5E

CALVO, P.
Economics of Exhaustible Resources: The Fishery,
W76-05443 9-11 6C

CAMACHO-B, S. E.
Leaf Water Potential Response to Transpiration by Citrus,
W76-07256 9-14 2D

CAMBELL, R. E.
Effects of Pinyon-Juniper Removal on Natural Resource Products and Uses in Arizona,
W76-08108 9-16 4C

CAMBRIDGE, M. L.
Seagrasses of South-Western Australia With Special Reference to the Ecology of Posidonia Australis Hook F. in a Polluted Environment,
W76-00870 9-02 5C

CAMERON, F. X.
NEPA and the CZMA: The Environmental Impact Statement and Section 306 Guidelines,
W76-06817 9-14 6G

CAMERON, M. S.
New Incineration Method Solves Grease Problem in Richmond, Pa.,
W76-08485 9-16 5E

CAMERON, R. E.
Effects of Petroleum Pollutants on Arctic Microbial Populations,
W76-09909 9-18 5C

CAMILLERI, C.
High Performance Plastic Bacterial Beds. Experiment with the Treatment of Industrial and Urban Wastes Waters (Les Lits Bacteriens Plastiques a Haute Performance. Presentation de l'experience Acquise dans le Traitement des Effluents Industriels et Urbains),
W76-04182 9-09 5D

CAMINADA, R.
Influence of Temperature on Biological Purification of Paper Mill Effluent (Influenza della temperatura sulla depurazione biologica di un refluo di cartiera),
W76-05700 9-12 5D

CAMINOS, H.
The Law of the Sea at the Caracas Session: A Brief Evaluation,
W76-10732 9-20 6E

CAMMEN, L. M.
Accumulation Rate and Turnover Time of Organic Carbon in a Salt Marsh Sediment,
W76-04948 9-10 5B

Accumulation Rate and Turnover Time of Organic Carbon in a Salt Marsh Sediment,
W76-06714 9-13 5C

CAMOUGIS, G.
Quabbin Reservoir: A Study of Drought and Water Demand,
W76-04682 9-10 4A

CAMP, B. J.
Acute Efects of Cadmium on Ictalurus Punctatus (Catfish),
W76-12331 9-23 5C

CAMP, W. J.
Waste Treatment and Control at Live Oak Poultry Processing Plant,
W76-08185 9-16 3I

CAMPBELL, D. III.
Marine Pollution,
W76-07836 9-15 6E

Navigation,
W76-07837 9-15 6E

Settlement of Disputes,
W76-07840 9-15 6E

CAMPBELL, D. R.
Detection of Trace Phosphorus in Natural Waters by Graphite Oven Flame Analysis,
W76-07672 9-15 5A

Effects of Temperature and Salinity on Growth and Uptake of 65ZN and 137CS for Six Marine Algae,
W76-12238 9-23 5C

Engineering the Bear Swamp Project,
W76-01010 9-03 6A

CAMPBELL, E.
The Preservation and Storage of Urine Samples for the Determination of Mercury,
W76-07959 9-15 5A

CAMPBELL, G. S.
Evaluation of a Thermocouple Hygrometer for Measuring Leaf Water Potential in Situ,
W76-00153 9-01 2I

CAMPBELL III, D.
Chapter V: The Continental Shelf,
W76-07833 9-15 6E

Conclusion,
W76-07842 9-15 6E

The High Seas and Selected Special Issues,
W76-07841 9-15 6E

CAMPBELL, J. R.
DDT Residues in Cod Livers from the Maritime Provinces of Canada,
W76-07719 9-15 5C

CAMPBELL, K. L.
Nitrate, Phosphorus, and Sulfate in Subsurface Drainage Water,
W76-01146 9-03 5B

CAMPBELL, M. D.
Evaluation of a Thermocouple Hygrometer for Measuring Leaf Water Potential in Situ,
W76-00153 9-01 2I

Mobility of Well-Drilling Additives in the Ground Water System,
W76-08904 9-17 5B

Planning Irrigation and Drainage Systems Using Retention and Extraction Limits,
W76-08553 9-16 3F

AMPBELL, O. A.
Biometer Measurement of Activated Sludge at Westvaco Corporation,
W76-11375 9-21 5D

AMPBELL, P. G.
Pre-Impoundment Site Preparation: A Study of the Effects of Topsoil Stripping on Reservoir Water Quality,
W76-09117 9-17 4C

AMPBELL, P. I.
Niagara River Acoustic Streamflow Measurement System,
W76-04165 9-09 7B

Uses of Water Resources Data,
W76-04255 9-09 7C

AMPBELL, R. B.
Corn Plant Water Stress as Influenced by Chiseling, Irrigation, and Water Table Depth,
W76-11503 9-21 3F

Crop Response to Chiseling and Irrigation in Soils with a Compact A2 Horizon,
W76-09985 9-18 3F

Tillage, Matric Potential, Oxygen and Millet Yield Relationships in a Layered Soil,
W76-13022 9-24 3F

CAMPBELL, R. H.
Soil Slips, Debris Flows, and Rainstorms in the Santa Monica Mountains and Vicinity, Southern California,
W76-11680 9-22 2E

CAMPBELL, R. S.
Water Management in Ontario--An Economic Evaluation of Public Policy,
W76-01969 9-04 6B

CAMPBELL, T.
Ferric Chloride and Organic Polyelectrolytes for the Removal of Phosphorus,
W76-07059 9-14 5D

CAMPBELL, W.
A Swedish Problem Solved,
W76-05344 9-11 5D

CAMPBELL, W. J.
Geophysical Studies of Floating Ice by Remote Sensing,
W76-02954 9-06 2C

Ice Dynamics in the Canadian Archipelago and Adjacent Arctic Basin as Determined by ERTS-1 Observations,
W76-04412 9-09 2C

Ice Thickness Distribution as Inferred from Infrared and Microwave Remote Sensing During the Bering Sea Experiment,
W76-04996 9-10 2C

Mesoscale Description for the Principal Bering Sea Ice Experiment,
W76-04997 9-10 2C

CAMPER, N. D.
Effects of Selected Herbicides on Bacterial Populations in Nontreated and Treated Water,
W76-09369 9-17 5C

CAMURRI, L.
Density and Biomass of Phytoplankton Populations in an Apennine Lake (Lake Santo Parmense) During the Winter Freeze, (In Italian),
W76-07316 9-14 5C

CANALE, R. P.
Water Quality and Economic Criteria for Rural Wastewater and Water Supply Systems,
W76-10583 9-20 5D

CANDOR, J. T.
Liquid Removing Method,
W76-02806 9-06 5D

CANDOR, R. R.
Liquid Removing Method,
W76-02806 9-06 5D

CANELLI, E.
Effects of Salinity on Nitrification in the East River,
W76-05631 9-12 5C

Effects of Salinity on Nitrification in the East River,
W76-06335 9-13 5C

An Improved Determination of Chemical Oxygen Demand in Water and Wastes by a Simplified Acid Dichromate Digestion,
W76-09203 9-17 5A

A Semiautomated Procedure for the Determination of Phosphorus in Water, Waste Waters and Particulates,
W76-03579 9-08 5A

CANEVARI, G. P.
Oil Collection Agents and Their Use in Containing Oil Slicks,
W76-11845 9-22 5G

CANNARD, A. J.
A Rapid Method for the Simultaneous Determination of Paraquat and Diquat in Pond and River Waters by Pyrolysis and Gas Chromatography,
W76-10870 9-20 5A

CANNELL, G. H.
Irrigation of Field Tomatoes and Measurement of Soil Water Changes by Neutron Moderation Methods,
W76-06793 9-13 3F

CANNELL, M. G. R.
Effects of Irrigation: Mulch and N-Fertilizers on Yield Components of Arabica Coffee in Kenya,
W76-11456 9-21 3F

CANNON, D.
The Ecology of Algae in the Moruya River, Australia,
W76-12934 9-24 5C

CANNON, J. L.
Conventional Wisdom Plus a New Philosophy--Corps of Engineers Water Resource Planning,
W76-01598 9-04 6E

CANNON, T. W.
A Photographic Technique for Measurements of Atmospheric Particles in Situ from Aircraft,
W76-01472 9-03 2B

CANONNE, A.
Oxidation Unit Cuts Down Odor from Kraft Pulp Mills,
W76-05486 9-11 5D

CANOY, M. J.
Tortuguero Bay Environmental Studies,
W76-12783 9-24 6G

CANTILLO, A. Y.
Some Considerations on Monitoring of Trace Metals in Estuaries and Oceans,
W76-10653 9-20 5A

CANTOR, K. P.
The Epidemiologic Approach to the Evaluation of Water-Borne Carcinogens,
W76-12888 9-24 5C

CAPEL, R. E.
Lake Location and Quality as Determinants of Potential Recreation Benefits: A Study of Selected Lakes in Manitoba,
W76-06622 9-13 6B

CAPEN, C. H.
Real or Rash Regionalization,
W76-03327 9-07 5F

CAPENER, H. R.
Basin Governance,
W76-10130 9-19 6E

Social Science Research on Water Resource Issues: Problems of Organization, Administration and Management,
W76-05358 9-11 6B

CAPLAN, S. R.
Charge-Mosaic Membranes,
W76-02734 9-06 3A

CAPLE, R.
Organo-Chemical Implications of Water Chlorination,
W76-12880 9-24 5C

CAPOZZA, R. C.
Regular Alternating Copolymers of Styrene and Imidazolines and their Derivative,
W76-04597 9-10 5D

CAPPADONA, C.
Possible use of High-Level Radiation for the Degradation of Some Substances Present in Urban and Industrial Waters,
W76-09533 9-18 5D

CAPPI, J. B.
Effluent Treatment in the Lead Crystal Industry,
W76-07531 9-15 5D

CARAWAN, R. E.
Use, Continued Use, and Reuse of Both Process and Waste Waters in Poultry Processing Operations,
W76-08299 9-16 3E

Water and Waste Management in Poultry Processing,
W76-08428 9-16 3E

CARBONNEL, J. P.
Quality Variations of the Mekong River At Phnom Penh, Cambodia, and Chemical Transport in the Mekong Basin,
W76-03745 9-08 5A

CARDEN, J. A.
Design, Construction, and Field Test Evaluation of a Hollow Fine Fiber Module,
W76-03156 9-07 3A

CARDER, K. L.
Light Scattering and Suspended Particulate Matter on a Transect of the Atlantic Ocean at 11 Deg N,
W76-03895 9-08 2L

CARDER, K. L.

Physical, Chemical, and Optical Measures of Suspended-Particle Concentrations: Their Intercomparisons and Application to the West African Shelf,
W76-03887 9-08 2L

CARDINAL, P. J. JR.
Process of Preparing Sewage Sludge for Dewatering,
W76-08409 9-16 5D

CARDWELL, R. D.
Acute Toxicity of Selected Toxicants to Six Species of Fish,
W76-10900 9-20 5C

CAREW, T. J.
Surveillance Methodology - 1974,
W76-07679 9-15 5A

CAREY, D. I.
Rural Residential Water Demand in Kentucky: An Econometric and Simulation Analysis,
W76-05252 9-11 6D

Supply and Demand in Water Planning: Streamflow Estimation and Conservational Water Pricing,
W76-05607 9-12 6D

Using Parametric Models of Runoff to Improve Parameter Estimates for Stochastic Models,
W76-05911 9-12 2E

CAREY, G. W.
Water Quality Monitoring and River Basin Planning: A Critique and Some Recommendations,
W76-02378 9-05 5A

CAREY, K. L.
Prevention and Control of Culvert Icing, Summary Report on Studies FY 1966-70,
W76-06193 9-13 8A

CARGILL, J. D.
A History of Sewage Works' Machinery,
W76-00639 9-02 5D

CARLANDER, K. D.
A Study of the Effects of Stream Channelization and Bank Stabilization on Warmwater Sport Fish in Iowa: Subproject No. 3 Some Effects of Short-Reach Channelization on Fish and Fish Food Organisms, in Central Iowa Warm Water Stream,
W76-12232 9-23 4C

Warm Water Stream Alteration in Iowa: Extent, Effects on Habitat, Fish, and Fish Food, and Evaluation of Stream Improvement Structures (Summary Report),
W76-12235 9-23 4C

CARLETON, H.
Wave Height Indicator Literature Search and Vendor Survey,
W76-01834 9-04 2L

CARLETON, S. V.
Nonmetallics - Their Performance in the Desalination Environment,
W76-03191 9-07 3A

Relationships of Corrosion Rates to Water Chemistry in the Freeport Test Bed Plant,
W76-03192 9-07 3A

CARLILE, B. L.
Dairy Waste Management Alternatives,
W76-00434 9-01 5D

Evaluation of Soil Systems for Land Disposal of Industrial and Municipal Effluents,
W76-11774 9-22 5D

CARLISLE, D. B.
Effect of Crude Oil on Populations of Bacteria and Algae in Artificial Ponds Subject to Winter Weather and Ice Formation,
W76-08453 9-16 5C

CARLISLE, D. R.
New Orleans Drinking Water Sources Tested by Gas Chromatography Mass Spectrometry, Occurrence and Origin of Aromatics and Halogenated Aliphatic Hydrocarbons,
W76-00603 9-02 5A

CARLSEN, N. A.
Experimental and Theoretical Investigations in an Oscillatory Turbulent Boundary Layer,
W76-10916 9-20 8B

CARLSON, A. L.
Septic Tanks,
W76-00598 9-02 5E

CARLSON, C. A.
Plastic Mortar Pipe Solves Joint Problem,
W76-02178 9-05 8G

CARLSON, C. T.
Lake and Shore Ice Conditions on Southeastern Lake Michigan in the Vicinity of the Donald C. Cook Nuclear Plant: Winter 1973-74,
W76-05664 9-12 2C

CARLSON, D. M.
Management of the Biological Resources of the Lake Ontario Basin,
W76-02617 9-06 6B

Responses of Planktonic Cladocerans to Heated Waters,
W76-03476 9-07 5C

CARLSON, G. A.
Factors Affecting Adoption of Land Treatment of Municipal Waste Water,
W76-01329 9-03 5D

Factors Affecting Adoption of Land Treatment of Municipal Waste Water,
W76-03203 9-07 5D

Land Treatment Versus Conventional Advanced Treatment of Municipal Wastewater,
W76-04937 9-10 5D

Porous Cathode Cell for Metals Removal from Aqueous Solutions,
W76-03533 9-08 5D

CARLSON, G. P.
Halogenated Organics in Tap Water: A Toxicological Evaluation,
W76-12885 9-24 5C

CARLSON, R.
Using Wastewater Solids to Reclaim Strip-Mined Land,
W76-06287 9-13 5G

CARLSON, R. D.
Establishing Water, Nutrient and Total Solids Mass Budgets for a Gravity-Irrigated Farm,
W76-13015 9-24 3F

CARLSON, R. M.
Organo-Chemical Implications of Water Chlorination,
W76-12880 9-24 5C

CARLSON, T. B.
Measurement and Interpretation of Drift-Particle Characteristics,
W76-04823 9-10 5A

CARLUCCI, A. F.
Vitamins in the South Polar Seas, I. Distribution and Significance of Dissolved and Particulate Vitamin B 12, Thiamine, and Biotin in the Southern Indian Ocean,
W76-08952 9-17 5C

CARMACK, E. C.
Temperature and Salinity Structure in the Weddell Sea,
W76-06394 9-13 2L

CARMICHAEL, R. S.
Gravity Geophysics for Groundwater Exploration in Glaciated Areas,
W76-09758 9-18 4B

CARMIGGELT, C. J. W.
Algal Nitrogen Fixation in Californian Streams: Seasonal Cycles,
W76-05639 9-12 5C

CARMONY, N. B.
A Second Locality for Native California Fan Palms (Washingtonia Filifers) in Arizona,
W76-13069 9-24 2I

CARNAHAN, C. L.
Transform Approach to Solution of Groundwater Flow Equations,
W76-08922 9-17 2F

CARNAHAN, R. L.
National Oceanic and Atmospheric Administration: Coastal Zone Management Program, Administration Grants, Allocation of Section 306 Funds to States,
W76-10754 9-20 6E

CARNAHAN, R. P.
U.S. Army Mobility Equipment Research and Development Command Environmental Pollution Abatement Program,
W76-12651 9-23 5D

CARNDUFF, J. A.
Pre-Treatment of Water Supplies Utilizing Ferric Chloride,
W76-11252 9-21 5F

CARNELL, V. V.
Silver Recovery Device for Photo Fixer Solutions,
W76-02587 9-06 5D

CARNES, R. A.
Land Disposal of Wastes: Potential for Groundwater Pollution,
W76-10667 9-20 5E

Pesticide Incineration,
W76-10675 9-20 5E

CARNEY, G.
Cadmium Levels and Carbohydrate Metabolism in Limpets,
W76-11963 9-22 5C

CARNEY, J. F.
Seasonal Occurrence and Distribution of Microbial Indicators and Pathogens in the Rhode River of Chesapeake Bay,
W76-05052 9-11 5B

CARNEY, L. L.
Cement Spacer Fluid,
W76-00387 9-01 8F

Thermal Degradation of Drilling Mud Additives,
W76-08901 9-17 8G

ARNEY, W. P.
Schistosomiasis and Other Human Parasitoses of Lake Lindu in Central Sulawesi (Celebes), Indonesia,
W76-12573 9-23 5C

AROLLO, A.
An Ecologic Survey of Lake Endine, (In Italian),
W76-08244 9-16 5C

Hydrologic and Chemical Analysis of the Principal Piedmontese Tributaries of Lago Maggiore in Relation to its Trophic Modifications, (In Italian),
W76-09576 9-18 5C

ARON, A. L.
A Water Quality Control Program,
W76-07642 9-15 5D

ARPENTER, A.
Separation and/or Concentration of Phenolic Materials from Dilute Aqueous Solutions,
W76-04785 9-10 5D

ARPENTER, E. J.
Brackish-Water Phytoplankton Response to Temperature Elevation,
W76-05999 9-12 5C

A Kinetic Approach to the Effect of Temperature on Algal Growth,
W76-10987 9-20 5C

Skeletonema Menzelii Sp. Nov., A New Diatom from the Western Atlantic Ocean,
W76-12766 9-24 2L

Summary of Entrainment Research at the Millstone Point Nuclear Power Station, 1970 to 1972,
W76-08632 9-16 5C

CARPENTER, J. H.
Chemistry of Halogens in Seawater,
W76-12884 9-24 5A

Determining Ultimate Capacity of the Coastal Zone for Wastewater and Wastewater Residuals,
W76-03847 9-08 5E

CARPENTER, P. D.
Energy Development: The Environmental Tradeoffs. Volume 3: Relative Environmental Ranking of Proposed Offshore Continental Shelf Areas on the Basis of Impacts of Oil Spills,
W76-13039 9-24 6G

CARPENTER, R. H.
Fe-Mn Oxide Coatings in Stream Sediment Geochemical Surveys,
W76-03412 9-07 5B

CARPENTER, R. L.
Aquaculture as a Means to Achieve Effluent Standards,
W76-03554 9-08 5D

The Evaluation of Microbial Pathogens in Sewage and Sewage-Grown Fish,
W76-03545 9-08 5C

CARPENTER, S. H.
Pavement Cracking in West Texas Due to Freeze-Thaw Cycling,
W76-12452 9-23 2C

CARPENTER, W. L.
Development of Improved Procedures for Measurement of Mill Effluent and Receiving Water Color,
W76-00040 9-01 5A

CARR, J. C.
Estimating Selected Parameters for the Kentucky Watershed Model from Watershed Characteristics,
W76-09852 9-18 2A

CARR, J. R.
Careful Sample Taking is Key to Successful Wells,
W76-05560 9-12 4B

CARR, M. K. V.
Irrigating Seedling Tea in Southern Tanzania: Effects on Total Yields, Distribution of Yield and Water Use.
W76-05928 9-12 2I

CARR, P. W.
Determination of Nitrate Ion at the Part Per Billion Level in Environmental Samples with a Continuous Flow Immobilized Enzyme Reaction,
W76-11636 9-22 5A

CARRAS, J. N.
The Interpretation of the Crystalline and Air Bubble Structures of Hail Stones,
W76-06167 9-13 2B

CARRE, Y.
Pollution of Recipients by Storm Runoff in Mixed Sewer Systems: Storm Retention Basins as a Remedy (La Pollution Des Emissaires Par Les Deversements Des Reseaux Unitaries: Un Remede Les Bassins D'Orage),
W76-01427 9-03 5D

CARRIGAN, P. H. JR.
Hydrologic Evaluation of Salinity Control and Reclamation Projects in the Indus Plain, Pakistan--A Summary,
W76-06453 9-13 5G

Optimizing Information Transfer in a Stream-Gaging Network,
W76-01187 9-03 7A

CARRIKER, N. E.
Boron and Arsenic Studies in Florida Waters,
W76-10265 9-19 5B

Continuous Monitoring, Automated Analysis, and Sampling Procedures, (Literature Review),
W76-12902 9-24 5A

CARROLL, B. E.
Evaluation of Anisotropic, Ionogenic Membranes (Diaflo UM-Series) for selective Removal of Divalent Cations and Anions from Brackish Water by Reverse Osmosis,
W76-03155 9-07 3A

CARROLL, T. E.
Review of Landspreading of Liquid Municipal Sewage Sludge,
W76-02658 9-06 5D

CARRUTH, C.
Effects of Water Quality on the Recreational Use of Water in South East Texas,
W76-11335 9-21 5G

CARRY, C. W.
Public Law 92-500: Technology Assessment, Technical Volume.
W76-11780 9-22 5G

CARSON, J. E.
Meteorological Consequences of Thermal Discharge from Nuclear Power Plants--Research Needs,
W76-04813 9-10 5B

CARSON, R. J. III.
Utilization of ERTS-1 Data in Geological Evaluation, Regional Planning, Forest Management, and Water Management in North Carolina,
W76-08538 9-16 4A

CARSON, W. V.
Accumulation of Thallium in Clams and Mussels,
W76-04921 9-10 5C

CARSTENS, J. C.
Some Remarks on Modeling of the Early Stages of Cloud Formation in a Simulation Chamber,
W76-07070 9-14 2B

CARSTENS, T.
Seabed Scour by Currents Near Platforms,
W76-11087 9-20 8B

Trapping of Heat in Sill Fjords,
W76-08856 9-17 5C

CARSWELL, L. D.
Stratigraphic and Hydrologic Relationship of the Piney Point Aquifer and the Alloway Clay Member of the Kirkwood Formation in New Jersey,
W76-05412 9-11 2F

CARTE, A. E.
The Probability of Hail within a Specified Area,
W76-03386 9-07 2B

CARTER, A. T.
The Boundary Waters Treaty of 1909: Does it Provide an Environmental Cause of Action,
W76-00926 9-02 6E

CARTER, D. L.
Conservation of Sediment in Irrigation Runoff,
W76-01693 9-04 4D

CARTER, F. L.
Biological Survey of the Savannah River in the Vicinity of the Savannah River Project, Part II - Report on Work Done and Tentative Conclusions on the Fall Survey,
W76-10042 9-19 5C

Biological Survey of the Savannah River in the Vicinity of the Savannah River Project. Part III - Report on the Work Done and Tentative Conclusions on the Winter Survey,
W76-10043 9-19 5C

CARTER, H. H.
The Distribution of Excess Temperature from the Vienna Generating Station on the Nanticoke River,
W76-01843 9-04 5B

CARTER, H. O.
An Analysis of Water Resource Benefit Determination Methods with Special Reference to the Cosumnes River Division Project,
W76-05441 9-11 6B

CARTER, H. R.
Ecosystems Analysis of the Big Cypress Swamp and Estuaties,
W76-10046 9-19 6G

CARTER, J. C. H.
The Influence of Fish on the Distribution of Chaoborus spp. (Diptera) and Density of Larvae in the Matamek River System, Quebec,
W76-00993 9-02 2H

Population Dynamics of Cladocerans in Sunfish Lake, Ontario,
W76-12407 9-23 2H

CARTER, J. L.
Effects of Shock Temperature on Biological Systems,
W76-09660 9-18 5C

CARTER, J. P.
Effect of Seepage on Embankment Deformations Due to Water Loading,
W76-12188 9-23 4A

CARTER, J. W.
The Effect of Finite Channel Width on Concentration Polarisation Reverse Osmosis Under Laminar Flow Conditions,
W76-00642 9-02 3A

CARTER, L.
Apparatus for Collecting Surface Particle on Body of Water,
W76-05970 9-12 5G

CARTER, M. H.
Techniques for Optimizing a Quadrupole GC/MS/Computer System,
W76-12870 9-24 5A

CARTER, M. J.
Automated Method for the Determination of Total and Inorganic Mercury in Water and Waste Water Samples,
W76-04756 9-10 5A

Micromethods for the Determination of Nonfilterable and Filterable Residues,
W76-11633 9-22 5A

CARTER, R. F.
Use of Water in Georgia, 1970, with Projections to 1990,
W76-02622 9-06 6D

CARTER, S.
Separation and/or Concentration of Phenolic Materials from Dilute Aqueous Solutions,
W76-04785 9-10 5D

CARTER, V.
Applications of ERTS Data to Coastal Wetland Ecology with Special Reference to Plant Community Mapping and Typing and Impact of Man,
W76-02036 9-05 7B

ERTS-1 Investigation of Wetlands Ecology,
W76-08319 9-16 2L

CARTHEW, G. A.
Lime Recovery and Reuse in Primary Treatment,
W76-05785 9-12 5D

CARTMILL, R. H.
Evaluation of Remote Sensing and Automatic Data Techniques for Characterization of Wetlands,
W76-02038 9-05 7C

Evaluation of Satellite Remote Sensing and Automatic Data Techniques for Characterization of Wetlands and Coastal Marshlands,
W76-01531 9-04 7B

CARTON, R. J.
Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Building, Construction, and Paper Segment of the Asbestos Manufacturing Point Source Category,
W76-01217 9-03 5G

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Grain Processing Segment of the Grain Mills Point Source Category,
W76-04550 9-10 5G

The Molecular Weight Distribution of Soluble Organics in Sewage and Sewage Effluents Using Gel Filtration,
W76-05101 9-11 5D

CARTY, C. E.
Seasonal Occurrence and Distribution of Microbial Indicators and Pathogens in the Rhode River of Chesapeake Bay,
W76-05052 9-11 5B

CARVAJAL, J. R.
Environmental Conditions and Productivity in the Terminos Lagoon, Campeche, Mexico, (In Spanish),
W76-08900 9-17 2L

CARVALLO, H. O.
Spatial Variability of in Situ Unsaturated Hydraulic Conductivity of Maddock Sandy Loam,
W76-05670 9-12 2G

CARVER, P. H.
Project Evaluation During Inflation,
W76-02444 9-05 6B

CARVER, R. D.
Effect of Offshore Structures on Shoreline Evolution, Atlantic Generating Station,
W76-09388 9-17 5G

Isotopic Analysis of Plutonium in Environmental Samples by Isotope Dilution Mass Spectrometry,
W76-08612 9-16 5A

Shore Effect Model, Atlantic Generating Station; Hydraulic Model Investigation,
W76-07457 9-15 8B

CARY, J. A.
Mini Sewage Treatment System,
W76-02216 9-05 5D

CARY, J. W.
The Influence of Soil Crusts on Heat and Water Storage,
W76-00524 9-02 2G

Soil Water Hysteresis: Temperature and Pressure Effects,
W76-03110 9-07 2G

CASE, A. A.
Nature and History of the Nitrate Problem,
W76-01033 9-03 5B

CASE, C. E.
Foraminous Composition for Removal of Oleophilic Material from the Surface of Water,
W76-03012 9-07 5G

CASE, C. M.
Transform Approach to Solution of Groundwater Flow Equations,
W76-08922 9-17 2F

CASE, F. N.
Method for Removing and Decolorizing Aqueous Waste Effluents Containing Dissolved or Dispersed Organic Matter,
W76-02264 9-05 5D

CASELTON, W. F.
Long-Term Operation of Storage Hydro Projects,
W76-06434 9-13 4A

CASEY, D. J.
IFYGL Stream Materials Balance Study,
W76-11429 9-21 5B

CASEY, H. F.
Maritime Consideration of Oil Transportation,
W76-10375 9-19 5G

CASLER, G. L.
Economic and Environmental Aspects of Daily and Annual Dairy Manure Spreading Systems in a Small Watershed,
W76-07161 9-14 5D

Environmental, Economic, and Physical Considerations in Liquid Handling of Dairy Cattle Manure,
W76-01023 9-03 5E

CASOLO, A. J.
Modular Container,
W76-10483 9-19 5D

CASON, R. G.
Biological Control of Alligator Weed,
W76-01495 9-03 4A

CASPAR, J. W.
Cooling Tower Experience and the Meteorological Consequences of Thermal Discharges from Nuclear Power Plants in the Federal Republic of Germany,
W76-08855 9-17 5G

CASPARIAN, R. E.
Process and Apparatus for Recovering Clean Water and Solids from Dilute Aqueous Solids,
W76-03011 9-07 5D

Process and Apparatus for Recovering Clean Water From Aqueous Wastes,
W76-08408 9-16 5D

CASPER, D. R.
An Improved Method for the Isolation of Phenols from Water,
W76-08026 9-15 5A

CASSEL, D. F.
Classification of Wetlands Vegetation Using Small Scale Color Infrared Imagery,
W76-06411 9-13 2L

CASSEL, D. K.
In Situ Hydraulic Conductivity at Four Hillslope Locations in a Closed Drainage System,
W76-00023 9-01 2G

Predicting Anion Movement in Disturbed and Undisturbed Soils,
W76-05402 9-11 2G

Spatial Variability of in Situ Unsaturated Hydraulic Conductivity of Maddock Sandy Loam,
W76-05670 9-12 2G

CASSEL, J. F.
Evaluation of Alternative uses of Wetlands,
W76-06908 9-14 3F

SSELMAN, J. M.
Selective Fish Mortality Resulting from Low Winter Oxygen,
W76-08788 9-17 5C

SSELMAN, T. W.
Disposal of Cattle Feedlot Waste in an Anaerobic Lagoon on the Organic Soils of South Florida--Preliminary Results,
W76-10540 9-20 5E

SSIDY, J. J.
Hydrology for Engineers and Planners,
W76-00531 9-02 2A

SSIMATIS, P. N.
Rotatable Sprinkler and Water Deflector Used Therewith,
W76-11445 9-21 3F

STAGNINO, W.
Environmental Monitoring in Latin America and the Caribbean,
W76-10654 9-20 5A

STEEL, R. W.
Fossil Fishes from the Plicene or Pleistocene Cache Formation, Lake County, California,
W76-02495 9-05 2H

STELL, J. D.
Lobster Nutrition: Effect on Homarus Americanus of Dietary Protein Levels,
W76-07969 9-15 5C

STIAUX, M. A.
Trace Metals and Pollution of the Belgian Coast and of the Schelt Estuary, (In French),
W76-12260 9-23 5A

STLEBERRY, J. N. JR.
A Proposal for Adoption of A Legal Doctrine of Groundstream Water Interrelationship in Texas,
W76-10731 9-20 4B

STON, V. N. D.
A Wind-Driven Near-Bottom Current in the Sourthern North Sea,
W76-07562 9-15 2L

STRO, R.
Mangrove-Root Communities in a Thermally Altered Area in Guayanilla Bay, Puerto Rico,
W76-03487 9-07 5C

STRO, W. E.
Enhanced Survival of Larval Grass Shrimp in Dilute Solutions of the Synthetic Polymer, Polyethylene Oxide,
W76-04920 9-10 5C

STRUCCI, A. M. DE L.
Chromatophores of the Teleost Tilapia Melanopleura -II. The Effects of Chemical Mediators, Microtubule Disrupting Drugs and Quabain,
W76-03057 9-07 5C

TALAN LAFUENTE, J. G.
Problems Caused by Industrial Residual Waters Treated in Conjunction with Urban Waters (Problemas planteados por las aguas residuales industriales en su tratamiento conjunto con las aguas urbanas),
W76-09285 9-17 5D

THER, M. R.
Life History and Ecology of Megarcys Signata (Plecoptera: Perlodidae), Mill Creek, Wasatch Mountains, Utah,
W76-10887 9-20 2I

TO, J. C.
Enabling Legislation: Possibilities for the Commercial Fishing Industry,
W76-10593 9-20 6E

Shrimp Supplies in the Southeast and their Effect on Processing Firm Size,
W76-13103 9-24 6C

TSKY, J.
Net Assimilation, Water use and Microclimatology of a Maize Canopy: IV. Diurnal Courses of Stomatal Resistances and Water Saturation Deficit of Leaves; Effects Upon Net Assimilation, (In French),
W76-00060 9-01 2I

TTRALL, R. W.
Determination of Iron (III) in Mineral Samples by Titration with Edta and a Coated-Wire Ion-Selective Indicator Electrode,
W76-02894 9-06 5A

ULTON, M. S.
The Ability of the Cichlid Fishes Tilapia Rendalle Boulenger, Tilapia Sparrmanii A. Smith and Hemihaplochromis (Pseudocrenilabrus) Philander (M. Weber) to Enter Deep Water,
W76-12759 9-24 5C

VALLINI, C.
Ecological Observations on Simuliidae of the Arrone River and Influents of the Bracciano Lake, (In Italian),
W76-07936 9-15 5C

VENDER, T. M.
Impact of a Mainstream Impoundment on the Fish Fauna of Big Walnut Creek a Scioto River Tributary in Central Ohio,
W76-12465 9-23 6G

VINDER, T. R.
Application of Water Quality Models to Finger Fill Canals,
W76-09981 9-18 5B

Ecosystems Analysis of the Big Cypress Swamp and Estuaties,
W76-10046 9-19 6G

WLFIELD, D. E.
Environmental Trace Materials: Computer Coupled Radioactivation Analysis,
W76-12712 9-24 5A

EASAR, J.
Chemical Dynamics of a Polluted Watershed, the Merrimack River in Northern New England,
W76-12833 9-24 5B

EBULA, E.
The Effects of High Sodium Chloride Concentrations and High Pollutant Loads on the Composition of the Activated Sludge Microflora in the Treatment of Petroleum Refinery-Generated Effluents (Wplyw wysokiego Stezenia Chlorku Sodowego I Duzego Ladunku Zanieczyszczen Na Sklad Milroflory Osadu Czynnego Przy Oczyszczaniu Sciekow Rafineryjno-Petrochemicznych).
W76-08464 9-16 5D

ECH, I.
Quantitative Assessment of Changes in Urban Runoff,
W76-09267 9-17 4C

CIL, L. K.
Symbiosis Makes Complete Water Reuse Practical,
W76-11258 9-21 5D

DERWALL, K.
Sediment Flushing After Dredging in Tidal Bays,
W76-12974 9-24 8C

ES, B.
Cause and Identification of Taste and Odour Compounds in Water,
W76-06009 9-12 5A

NTI, T. J.
A Survey of Wastewater Treatment Techniques for Steel Mill Effluents,
W76-01631 9-04 5D

NTINEO, P.
Method for Collecting Scale Formations in Water Pipes,
W76-06479 9-13 8G

RCEAU, J.
Simulation of the Salinity Distribution in the St. Lawrence Estuary by a Two-Dimensional Mathematical Model,
W76-10443 9-19 5B

RMAK, J. E.
Wind-Tunnel Simulation of Atmospheric Flow and Dispersion,
W76-10908 9-20 5A

RNY, K.
Mortality of the Early Developmental Stages of the Roach- Rutilus Rutilus (Linnaeus, 1758),
W76-12721 9-24 5C

RRILLO, L. A.
Ground-Water Pollution Problems in the Northwestern United States,
W76-10083 9-19 5B

Hydrogeology Along the Proposed Barrier-Recharge-Well Alinement in Southern Nassau County, Long Island, New York,
W76-01184 9-03 4B

RVENKA, P. O.
Development of an Airborne Laser Bathymeter,
W76-11755 9-22 7B

SAREO, D. J.
Infiltration--Inflow Analysis,
W76-02170 9-05 5D

SARIO, F. J.
Marginal Pollution Analysis for Long Rage Forecasts,
W76-11127 9-21 5G

SARO, D. J.
How to Analyze Infiltration/Inflow,
W76-00566 9-02 5D

SSNA, J. O. H.
Liquid Wastes Treatment Method,
W76-02832 9-06 5D

SSOU, M.
Process for the Treatment of Waste Waters Containing Sulfuric Acid and/or Ammonium Sulfate,
W76-06470 9-13 5D

HA, J. W.
Different Levels of Soil Organic Matter in Desert Soil and Nitrogen Fertilizer on Yields

LIBRARY OF THE URBANA-CHAMPAIGN

and Mineral Composition of Barley Grown in the Soil,
W76-10170 9-19 3F

Quantitative Studies of Roots of Perennial Plants in the Mojave Desert,
W76-02531 9-06 2I

Sodium Relations in Desert Plants: 3. Cation-Anion Relationships in Three Species Which Accumulate High Levels of Cations in Leaves,
W76-02158 9-05 3C

Sodium Relations in Desert Plants: 4. Some Physiological Responses of Atriplex Confertifolia to Different Levels of Sodium Chloride,
W76-02968 9-06 3C

CHABOT, B. F.
Cold Period Plant-Water Relations Affecting Consumptive Use of Soil Water and Waste Water Reuse,
W76-04802 9-10 2D

CHADBOURNE, B. D.
The Movement of Melting Ice over Rough Surfaces,
W76-05671 9-12 2C

CHADWICK, E. M. P.
A Comparison of Growth and Abundance for Tidal Pool Fishes in California and British Columbia,
W76-10064 9-19 2L

CHADWICK, H. K.
Entrainment and Thermal Effects on a Mysid Shrimp and Striped Bass in the Sacramento-San Joaquin Delta,
W76-08631 9-16 5C

CHADWICK, N. R.
The Barmby Tidal Barrage,
W76-04975 9-10 2L

CHAEMSAITHONG, K.
Multipurpose River Project Planning in the Lower Mekong Basin: A Decision Approach,
W76-05762 9-12 6A

CHAIKIN, M.
The Treatment of Wool-Scouring Effluent: Centrifugation Studies,
W76-03094 9-07 5D

CHAKRABARTI, S. K.
Modeling of Wind-Waves with Jonswap Spectra,
W76-09948 9-18 8B

Second-Order Wave Force on Large Vertical Cylinder,
W76-03381 9-07 8B

Wave Forces on Vertical Circular Cylinder,
W76-12443 9-23 8B

CHAKRAVARTY, N.V.K.
Estimation of Evapotranspiration for Water Balance Studies in a Semi-Arid Region,
W76-08067 9-15 2D

CHALK, R. A.
Abatement of Nitrobodies in Aqueous Effluents From TNT Production and Finishing Plants,
W76-02442 9-05 5D

CHALMERS, R. K.
A Feasibility Study of the Control of Pollution from Industrial Waste Waters Discharged into the Lagoon of Venice,
W76-10679 9-20 5D

CHAMBERLAIN, R. J.
Ecologically Acceptable Method of Breaking Mineral Oil Emulsions-Suspensions,
W76-02775 9-06 5G

CHAMBERS, C. W.
Health Aspects of Poultry Waste Disposal,
W76-00917 9-02 5E

CHAMBERS, D. B.
Flotation: Two Fresh Ways to Treat Effluents,
W76-12661 9-23 5D

CHAMBERS, J. V.
Loading Characteristics Affecting the Performance of a Laboratory Dairy Waste Water Treatment System,
W76-04751 9-10 5D

CHAMBERS, M. D.
Water as a Factor in Energy Resources Development,
W76-05250 9-11 6B

CHAMPMAN, W. H.
Multiple Re-Use of Water,
W76-02816 9-06 5D

CHAN, D. T. L.
Entrainment and Drag Forces of Deflected Jets,
W76-12969 9-24 8B

CHAN, G. L.
A Study of the Effects of the San Francisco Oil Spill on Marine Life, Part II: Recruitment,
W76-00135 9-01 5C

CHAN, H. S.
Problems in Analyses of Organic Pollutants in Open-Ocean Samples,
W76-11239 9-21 5A

CHAN, H. T.
Movement of Tracers Through Soil,
W76-05701 9-12 5B

CHAN, K. C.
Pittsburgh Rainwater Analysis by Pixe,
W76-07555 9-15 5A

CHAN, W. B.
California High Water, 1972-1973,
W76-01315 9-03 2E

California High Water, 1973-1974,
W76-01482 9-03 2E

CHAN, Y. K.
Improved Image-Well Technique for Aquifer Analysis,
W76-08517 9-16 4B

Pumping Test Analysis When Parameters Vary with Depth,
W76-06687 9-13 4B

CHANCELLOR, W. J.
Irrigated Agricultural Production Response to Constraints in Energy-Related Inputs.
W76-04562 9-10 3F

CHANDA, A. J.
Lower Monumental Dam, Snake River, Washington: Hydraulic Model Investigation,
W76-03874 9-08 8B

CHANDER, R.
Endemic Fluorosis in Punjab: I. Skeletal Aspect,
W76-12500 9-23 5C

CHANDLER, C.
Will Texas Have Enough Water for the Electric Utility Industry,
W76-00421 9-01 6D

CHANDLER, R. L.
Upconing of the Salt-Water--Fresh-Water Interface Beneath a Pumping Well,
W76-00295 9-01 4B

CHANDRA, S.
Application of Infrared Spectroscopy to Erodibility Studies of the Soil,
W76-06140 9-12 2J

CHANDRAMOULI, S.
Seasonal Feature of Thermal Abatement of Shoreline Discharges at Nuclear Sites,
W76-08862 9-17 5G

CHANDRASHEKAR, M.
Numerical Two-Dimensional Flow Model for River Systems,
W76-09964 9-18 2E

CHANDRASHEKHAR, N.
An Empirical Description of Wall Jet Velocity Profiles,
W76-02407 9-05 8B

CHANEY, R. L.
Trench Incorporation of Sewage Sludge in Marginal Agricultural Land,
W76-02072 9-05 5D

CHANG, A. C.
A Planning Study on Dairy Wastes Management,
W76-07175 9-14 5D

Surface Runoff in Dairies,
W76-03970 9-08 5B

CHANG, B. D.
Metabolic Studies on the Amphipod Anisogammarus Pugettensis in Relation to its Trophic Position in the Food Web of Young Salmonids,
W76-12763 9-24 5C

CHANG, J.
Environmental Studies of an Arctic Estuarine System,
W76-02075 9-05 2L

CHANG, S.
A Proposed Algorithm for the Solution of the Large-Scale Inverse Problem in Groundwater,
W76-09850 9-18 2F

Stochastic Projections for Water Resources Planning,
W76-05012 9-11 6A

CHANG, S. L.
Effectiveness of Hypochlorous Acid and Hypochlorite Ion in Destruction of Viruses and Bacteria,
W76-00117 9-01 5F

CHANG, T. C.
Mesoscale Description for the Principal Bering Sea Ice Experiment,
W76-04997 9-10 2C

CHANG, W. J.
Evaluation of Thin Film Oil Samplers,
W76-10381 9-19 5A

CHANGNON, S. A. JR.
Design of an Experiment to Suppress Hail in Illinois,
W76-08330 9-16 3B

A Hypothesis for Urban Rainfall Anomalies,
W76-11744 9-22 2B

Possible Urban Effects on Maximum Daily Rainfall at Paris, St. Louis and Chicago,
W76-10929 9-20 4C

Urban-Industrial Effects on Clouds and Precipitation,
W76-10905 9-20 4C

HANGRANEY, T. G.
Extreme Rainfall Studies of the Brahmani, The Burhabalang, The Rushikulya and the Subarnarekha River Catchments,
W76-08733 9-16 2B

HANKO, G. P.
Final Report--Determining Feasibility of Alternative Approaches of Obtaining Solid-Dry Brine Effluent from Desalination Plants at Inland Locations,
W76-03152 9-07 3A

HANTEFORT, A.
Experimental Study of the Purification of Effluents from the Manufacture of Bleached Bisulfite Pulp by Aeration Lagooning (Etude experimentale de l'epuration par lagunage aere de liqueurs bisulfitiques de pate de cellulose blanchie),
W76-05718 9-12 5D

HAO, J. L.
Horizontal Spread of Wastewater Field Over Calm Ocean Surface,
W76-02687 9-06 5B

Horizontal Spread of Wastewater Field Over Calm Ocean Surface,
W76-06294 9-13 5B

HAO, P. C.
Sediment Deposition Model for Tarbela Reservoir,
W76-09970 9-18 2J

HAPEL, D. G.
Refinery Design (Circa 1984),
W76-05104 9-11 5D

HAPMAN, E. F.
Retransmission of Water Resources Data Using the ERTS-1 Data Collection System,
W76-02032 9-05 7B

CHAPMAN, J. C.
Structural Model Studies for the Hendrik Verwoerd Dam,
W76-12523 9-23 8A

CHAPMAN, L.
Hepatitis Attributed to Polluted Stream,
W76-09220 9-17 5C

CHAPMAN, T. G.
Trends in Catchment Modelling,
W76-04147 9-09 2A

CHAPMAN, W. F.
Method and Apparatus for Separating Oil from Aqueous Liquids,
W76-09054 9-17 5D

Method and Apparatus for Separating Oil from Aqueous Liquids,
W76-09055 9-17 5D

CHAPOVSKAYA, G. V.
The Water Supply System of Soil and Nitrogen Loss with Runoff Waters in Nonchernozem Areas, (In Russian),
W76-09794 9-18 2G

CHAPPEL, R. M.
Methods and Apparatus for Treating Wastewater,
W76-05987 9-12 5D

CHAPPELL, G. M.
Compositions for Treating Domestic and Industrial Liquid Wastes,
W76-11221 9-21 5D

CHAPRA, S. C.
Documentation for ES001. A Steady-State, One Dimensional, Estuarine Water Quality Model,
W76-11460 9-21 5B

CHAPSAL, P.
Device and Apparatus for Treating Liquids Such as Drinking Water and Waste Water,
W76-00589 9-02 5F

CHARBONNEAU, J. O. G.
Glacier Surveys in Alberta - 1971,
W76-07680 9-15 2C

Glacier Surveys in British Columbia - 1970,
W76-04154 9-09 2C

CHARETTE, P. A.
The Permittivity and Attenuation in Polycrystalline and Single-Crystal Ice Ih at 30 and 60 MHz,
W76-05672 9-12 2C

CHARLESWORTH, B. R.
Polyelectrolytes in Pressure Filtration: Experiences at Farnham,
W76-03336 9-07 5D

CHARLIER, R. H.
The Budding Environmental Clean-Up (A Viewpoint): Part II. Clean Up, Costs and Growth,
W76-13098 9-24 5G

CHARNELL, R.
New York Bight Project, Water Column Sampling Cruises No 1-5 of the NOAA Ship FERREL, August-November 1973,
W76-03187 9-07 7C

CHARNELL, R. L.
Ocean Internal Waves Off the North American and African Coasts from ERTS-1,
W76-02040 9-05 7B

Water Movement Within the Apex of the New York Bight During Summer and Fall of 1973,
W76-03185 9-07 2L

CHARREL, J.
Comparative Study of Poliovirus Concentration Methods From Water (Essais Comparatives De Methodes De Concentration Du Poliovirus aPartir Des Eaux),
W76-01444 9-03 5D

Disinfection of Urban Sewage Sludge (La Desinfection Des Bous Residuaires Urbaines),
W76-09007 9-17 5D

CHARRON, J. E.
Hydrogeological Study of the Selkirk Area, Manitoba,
W76-04162 9-09 4B

Study of Groundwater Flow in Russell County, Ontario,
W76-04237 9-09 4B

CHARTER, D. B.
Quantitative Estimates of Petroleum to the Oceans
W76-05137 9-11 5B

CHARTIER, P.
Net Assimilation, Water use and Microclimatology of a Maize Canopy: IV. Diurnal Courses of Stomatal Resistances and Water Saturation Deficit of Leaves; Effects Upon Net Assimilation, (In French),
W76-00060 9-01 2I

CHARUDATTAN, R.
Biological Control of Water Weeds with Plant Pathogens,
W76-11904 9-22 4A

CHARUIT, P.
Apparatus for the Prevention of Scaling in Desalination Apparatus,
W76-13154 9-24 3A

CHARYEV, M. K.
The Effect of Irrigation on the Development of Desert Takyr Soils, (In Russian),
W76-07580 9-15 3F

CHASE, B. L.
Features of Various Offshore Structures,
W76-09311 9-17 8A

CHASHCHUKHIN, V. A.
The State of Water in Plant Tissues at Negative Temperatures under Natural Conditions, (In Russian),
W76-08368 9-16 2I

CHATELET, A.
Effect of Copper Sulfate on Mucus Cells in Young Trout (Salmo Irideus), (In French).
W76-11545 9-21 5C

Principle of a Technical Device for the Study of Toxic Effluents in Water Pollution, (In French),
W76-12255 9-23 5A

Toxic Action of Copper on the Gills of Carp (Cyprinus Carpio), (In French),
W76-08260 9-16 5C

CHATHAM, C. E. JR.
Design of Agana Small-Boat Harbor, Territory of Guam; Hydraulic Model Investigation,
W76-07478 9-15 8B

Design of Entrance Channel Improvements for Ludington Harbor, Michigan; Hydraulic Model Investigation,
W76-07477 9-15 8B

Design of Jubail Harbor, Saudi Arabia, Royal Saudi Naval Expansion Program; Hydraulic Model Investigation,
W76-07475 9-15 8B

Expansion of Port Hueneme, California; Hydraulic Model Investigation,
W76-07468 9-15 8B

CHATTERIEE, R. M.
Behaviour of Oil Under Canadian Climatic Conditions. Part 1. Oil on Water Under Ice-Forming Conditions,
W76-08365 9-16 5B

CHATTERJEE, R. M.
Behaviour of Oil under Canadian Climatic Conditions Part 1. Oil on Water under Ice-Forming Conditions,
W76-06366 9-13 5G

A Limnological Survey of Nearshore Waters of Lake Superior,
W76-11321 9-21 2H

CHATURVEDI, A. C.
Flood Problems in Uttar Pradesh,
W76-09640 9-18 4A

CHAU, A. S. Y.
Gas-Liquid Chromatographic Determination of 3-Trifluoromethyl-4-Nitrophenol in Natural Waters,
W76-12486 9-23 5A

CHAUDHARY, T. N.
Growth Response of Crops to Depth and Salinity of Ground Water, and Soil Submergence. I. Wheat (Triticum aestivum L.),
W76-00156 9-01 3C

CHAUHAN, H. S.
A Hele-Shaw Model Study of Steady State Flow in an Unconfined Aquifer Resting on a Sloping Bed,
W76-00540 9-02 2F

A Simplified Approach for the Analysis of Unsteady Flow to a Cavity Well,
W76-07561 9-15 2F

CHAUVIGNE, M.
Lawn Sprinkling and Similar Installations,
W76-13157 9-24 3F

CHAUVIN, D. J.
Selecting Packer Fluids: Here's What to Consider,
W76-10099 9-19 8G

CHAVIN, W.
Prototype Design for a Closed Marine System Employing Quaternary Water Processing,
W76-04924 9-10 5G

CHAWLA, V. K.
Recycling of Liquid Digested Sewage Sludge on Dredged River Sand,
W76-10501 9-20 5D

Treatment of Fish and Vegetable Processing Waste-Lagoon Effluent by Soil Bio-Filtration,
W76-04738 9-10 5D

CHEBELEU, D.
Mathematical Model for Establishing the Overflow Spillway Discharges in the Flood Storage Ponds,
W76-01762 9-04 4A

CHEBOTAREV, E. N.
Microbiological Production of Hydrogen Sulphide in the Veisovo Lake (Slavyansk Lakes), (In Russian),
W76-07278 9-14 5C

Participation of Microorganisms in Sulfur Turnover in Pomiaretzkoe Lake, (In Russian),
W76-01774 9-04 5C

CHEL'TSOVA, L. P.
Water Regime in Growing Points of Wheat Shoots, (In Russian),
W76-08757 9-17 2I

CHELYSHEVA, R. A.
The Conduct of Certain Long-Lived Isotopes in Rocks in the Case of Their Contamination with Nontechnical Effluents of the Atomic Electric Power Stations (AES), (In Russian),
W76-12908 9-24 5B

CHEN, B. H.
State-of-the-Art of Geothermal Reservoir Engineering,
W76-07209 9-14 4B

CHEN, C-L.
Flow Resistance in Broad Shallow Grassed Channels,
W76-10710 9-20 2E

CHEN, C-N.
Evaluation and Control of Soil Erosion in Urbanizing Watersheds,
W76-09742 9-18 4D

CHEN, C. W.
Organic Sediment Model for Wastewater Outfall,
W76-09951 9-18 5B

CHEN, H. S.
Hybrid-Element Method for Water Waves,
W76-09945 9-18 8B

CHEN, K. Y.
Chemistry of Sulfur Species and Their Removal from Water Supply,
W76-00108 9-01 5F

Fate of Metals in Wastewater Discharge to Ocean,
W76-12927 9-24 5B

Mechanisms of Leachate Formation in Sanitary Landfills,
W76-11118 9-21 5B

Water Balance and Water Resources In China,
W76-00314 9-01 2A

CHEN, L. H.
Agricultural Water Demands in North Carolina,
W76-08841 9-17 3F

CHEN, M.
Effects of Salinity on Nitrification in the East River,
W76-05631 9-12 5C

Effects of Salinity on Nitrification in the East River,
W76-06335 9-13 5C

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Wastewater Treatment System with Controlled Mixing,
W76-09433 9-18 5D

CHEN, Y. H.
Mathematical Modeling of Alluvial Channels,
W76-09968 9-18 8B

Riverbank Recessions for Power Plant Facilities,
W76-09973 9-18 8B

CHENCHAYYA, T.
Systematic Development of Methodologies in Planning Urban Water Resources for Medium Size Communities: Regional Aquifer Evaluation Studies with Stochastic Inputs,
W76-11176 9-21 6B

CHENEY, P. B.
A Method for Applying Research to Environmental Planning and Management: A Case Study of Issues Important to the Chesapeake Bay Region,
W76-05434 9-11 6B

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W76-01345 9-03 6F

CHENG, C. K.
A Fickian Analysis of Lake Sediment Upsurge,
W76-11692 9-22 2J

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Numerical Analysis of One-Dimensional Water Infiltration,
W76-10262 9-19 2G

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W76-05094 9-11 5D

CHENG, M-S.
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W76-04805 9-10 5B

The Water and Total Optimizations of Wet and Dry-Wet Cooling Towers for Electric Power Plants,
W76-07674 9-15 3E

CHENG, R. T.
A Numerical Model of the Time-Dependent, Three-Dimensional Structure of Circulation in Large Lakes,
W76-11422 9-21 2H

CHENG, T. C.
Does Copper Cause Anemia in Biomphalaria Glabrata,
W76-08455 9-16 5C

CHENG, W. W.
Movement of Tracers Through Soil,
W76-05701 9-12 5B

CHEREMISINOFF, P. N.
Anaerobic Digestion of Sludge, Part I,
W76-03827 9-08 5D

Anaerobic Digestion of Sludge, Part II,
W76-06344 9-13 5D

Techniques for Industrial Odor Control,
W76-03330 9-07 5D

Wastewater Solids Separation,
W76-00271 9-01 5D

CHERKAUER, D. S.
Urbanization Impact on Water Quality During a Flood in Small Watersheds,
W76-01307 9-03 4C

CHERKINSKII, S. N.
Isolation of Salmonella from Sewage and Surface Waters, (In Russian),
W76-09411 9-18 5A

A New Standard 'Drinking Water' (Gost 2874-73) and Its Scientific Basis, (In Russian),
W76-12317 9-23 5G

Re-Use of Municipal Sewage for Purposes of Sanitary Protection of Water Bodies, (In Russian),
W76-02614 9-06 5D

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W76-08864 9-17 5A

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W76-00783 9-02 5D

CHERMISINOFF, N. P.
Pumps: Application and Design Basics, Part II,
W76-03819 9-08 8C

IERNE, L. G.
Installation for Sewage Treatment,
W76-01715 9-04 5D

Installation for Sewage Treatment,
W76-02211 9-05 5D

IERNOGAYEVA, G. M.
Maps of the Elements of the Hydrologic Budget of Asia,
W76-05934 9-12 2A

IERNOUSOV, YU. I.
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W76-09281 9-17 5A

Purification of Waste Water from Paper Industry,
W76-06971 9-14 5D

CHERNOUSOVA, L. A.
Seasonal Dynamics of Suspended Matter in the Azov Sea, (In Russian),
W76-10126 9-19 2J

CHERNYSH, G. P.
Decontamination of Wastewaters at the Stage of Potassium Arabonate in the Production of Vitamin B2, (In Russian),
W76-08578 9-16 5D

CHERRY, D. S.
Alteration of Microbial Populations in Thermal Stress,
W76-11629 9-22 5D

Bacterial Populations of Aquatic Systems Receiving Different Types of Stress,
W76-11704 9-22 5C

Laboratory and Field Temperature Preference and Avoidance Data of Fish Related to the Establishment of Standards,
W76-07494 9-15 5C

Significance of Detritus or Detritus-Associated Invertebrates to Fish Production in a New Impoundment,
W76-03654 9-08 5C

Temperatures Selected and Avoided by Fish at Various Acclimation Temperatures,
W76-10885 9-20 5C

CHERRY, K. F.
Bio Pond Aerator,
W76-05535 9-12 5D

CHERRY, R. H. JR.
Reclamation of Metal Values From Metal-Finishing Waste Treatment Sludges,
W76-00370 9-01 5D

CHERRY, W. B.
Detection of Salmonellae in the Environment,
W76-05100 9-11 5A

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An Overview of the Precipitation Processing System at the Southwest Watershed Research Center,
W76-13132 9-24 7C

CHESNESS, J. L.
Water Quality in a Recirculating Raceway System for Fish Culture,
W76-10546 9-20 5G

CHESNEY, E. J.
Polyspecies Aquaculture Systems: The Detrital Trophic Level,
W76-10997 9-20 5C

CHESNEY, E. J. JR.
Polyspecies Aquaculture Systems: The Detrital Trophic Level,
W76-06759 9-13 5C

CHESNIN, L.
Detachment of Soil Aggregates by Simulated Rainfall From Heavily Manured Soils in Eastern Nebraska,
W76-03730 9-08 2J

CHESNUTT, C. B.
Laboratory Effects in Coastal Movable-Bed Models,
W76-10425 9-19 2L

Tests on the Equilibrium Probiles of Model Beaches and the Effects of Grain Shape and Size Distribution,
W76-10422 9-19 2L

CHESSER, B. G.
Use of a Bioassay Test in Evaluating the Toxicity of Drilling Fluid Additives on Galveston Bay Shrimp,
W76-00408 9-01 5A

CHESSMAN, B. C.
Distribution of Fish in Inland Saline Waters in Victoria, Australia,
W76-06143 9-12 2H

CHESTER, F. B.
Aerobic/Anaerobic Composting Device and Method of Composting,
W76-00574 9-02 5D

CHESTER, G.
Persistence of Diquat in the Aquatic Environment,
W76-07546 9-15 5C

CHESTERS, G.
Liquid Chromatographic Analyses in Soil Chemistry,
W76-01636 9-04 5A

Paper Chromatographic Analysis in Air Pollution,
W76-01637 9-04 5A

Paper Chromatographic Analysis in Soil Chemistry,
W76-01638 9-04 5A

Persistence of Endothall in the Aquatic Environment,
W76-01658 9-04 5B

CHEUNG, M. W.
Adsorption of Picloram (4-Amino-3,5,6-Trichloropicolinic Acid) on Panoche, Ephrata, and Palouse Soils: A Thermodynamic Approach to the Adsorption Mechanism,
W76-12142 9-22 5B

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W76-04971 9-10 2L

CHEYSSON, P. J.
Liquid Separating Equipment,
W76-04614 9-10 5G

CHHINA, S.
Toxicity of Insecticides (Commercial Formulations) to the Exotic Fish, Common Carp Cyrpinus Carpio Communis Linnaeus,
W76-07699 9-15 5C

CHIAN, E. S. K.
Aerobic Thermophilic Treatment of High Strength Wastewaters,
W76-11204 9-21 5D

Compilation of Methodology used for Measuring Pollution Parameters of Sanitary Landfill Leachate,
W76-05869 9-12 5A

Evaluation of New Reverse Osmosis Membranes for the Separation of Toxic Compounds From Wastewater, Second Annual Summary Report,
W76-00512 9-02 5D

Fundamental Study on the Post Treatment of RO Permeates from Army Wastewaters,
W76-12851 9-24 5D

Removal of Pesticides by Reverse Osmosis,
W76-01223 9-03 5D

Reverse Osmosis Separation of Polar Organic Compounds in Aqueous Solution,
W76-09165 9-17 5D

Sanitary Landfill Leachates and Their Treatment,
W76-12930 9-24 5D

Thermophilic Microbiological Treatment of High Strength Wastewaters with Simultaneous Recovery of Single Cell Protein,
W76-06293 9-13 5D

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W76-04390 9-09 6D

CHIATOVICH, T. D.
Optimal Planning of Regional Wastewater Systems and their Impacts on Stream Quality With a Case Study of the Carson River Basin,
W76-01524 9-04 5F

CHICHESTER, H. G.
Aquaculture as a Means to Achieve Effluent Standards,
W76-03554 9-08 5D

CHIEN, C. C.
Chloride Build-Up and Control in Lake Erie,
W76-11318 9-21 5B

CHIEN, J. C.
Penetration and Mixing of Heated Discharges into Waterways,
W76-08926 9-17 5B

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A Land Capability Model for the Lower Lake Monroe Watershed,
W76-02002 9-05 4A

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W76-10170 9-19 3F

CHILDRESS, J. J.
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W76-09128 9-17 5C

CHILDRESS, R.
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W76-03420 9-07 2L

CHILDS, S. W.
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W76-04945 9-10 3C

CHILHOLM, S. W.
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W76-08941 9-17 5C

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W76-05860 9-12 2E

CHING, J. K. S.
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W76-11435 9-21 2H

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CHISDES, D. M.
Determination of Sodium Form Water Softener Breakthrough,
W76-13161 9-24 5F

CHISHOLM, J. L.
Records of Wells, Springs, and Streams in the Potomac River Basin, West Virginia,
W76-08055 9-15 4B

CHISHOLM, L. C.
Identification of Objectionable Environmental Conditions and Issues Associated with Confined Disposal Areas,
W76-00516 9-02 5B

CHISHOLM, S. W.
Environmental and Intrinsic Control of Filtering and Feeding Rates in Arctic Daphnia,
W76-08933 9-17 5C

Light/Dark-Phased Cell Division in Euglena Gracilis (Z) (Euglenophyceae) in PO4-Limited Continuous Culture,
W76-13117 9-24 5C

Seasonal Variation of Manganese in a Eutrophic Lake,
W76-01142 9-03 5C

CHISNELL, R. F.
Ice Particle Multiplication in Cumulus Clouds,
W76-06678 9-13 2B

Multiplication of Ice Particles in Slightly Supercooled Cumulus,
W76-00001 9-01 2B

CHITALE, S. V.
Shape and Size of Alluvial Canals,
W76-12975 9-24 8B

Simulation of Delta Building Process,
W76-10426 9-19 2L

CHITTENDEN, M. E. JR.
Weight Loss, Mortality, Feeding, and Duration of Residence of Adult American Shad, Alosa Sapidissima in Fresh Water,
W76-08433 9-16 5C

CHIU, C-L.
Simulation of Hydraulic Processes in Open Channels,
W76-08344 9-16 8B

CHIU, F. Y.
Analysis of Nonpoint-Source Pollutants in the Missouri Basin Region,
W76-00369 9-01 5B

CHIU, T. Y.
Movable-Bed Model Investigation of Taichung Harbor, Taiwan, Rep. of China,
W76-10427 9-19 2L

CHIVATE, V. R.
Measurement of Soil Moisture in Poona Black Cotton Soil Using an Infra-Red Moisture Balance,
W76-08734 9-16 2G

CHIZHOV, A. N.
Investigation and Calculations of Ice Jams,
W76-11749 9-22 2C

CHKHIKVISHVILI, V. I.
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W76-00081 9-01 2G

The Critical Depth of the Level of Soil-Salinizing Ground Waters, (In Russian),
W76-09808 9-18 2G

CHLU, S-T.
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W76-01670 9-04 5A

CHO, B.
Surveys on Radiation-Resistant Asporogenic Bacteria in Natural Environments,
W76-09519 9-18 5C

CHO, C.
Check that pH,
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CHOI, P.
Interdependence of Air, Water, and Soil Pollution Control Strategies in a Power Plant and a Kraft Mill,
W76-03297 9-07 5D

CHOI, S. K.
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W76-12352 9-23 5B

CHOO, IL-YOUNG
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W76-05595 9-12 5C

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W76-04107 9-09 8A

CHOSHNIAK, I.
Water Economy and Drinking Regime of the Bedouin Goat,
W76-13125 9-24 3C

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W76-04669 9-10 5D

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The Separation of Rhodium and Iridium by Anion-Exchange,
W76-02888 9-06 5A

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W76-08773 9-17 5C

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W76-11089 9-20 5A

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W76-04933 9-10 6A

A Scheme for Stochastic State Variable Water Resources Systems Optimization,
W76-01685 9-04 2E

Urban Stormwater Runoff: Determination of Volumes and Flowrates,
W76-12858 9-24 5B

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W76-10423 9-19 2L

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W76-03799 9-08 5D

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W76-06320 9-13 5G

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W76-08681 9-16 5D

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W76-11061 9-20 5D

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W76-08400 9-16 5D

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Solute Properties of Water,
W76-04672 9-10 1B

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Computations of Harbor Oscillations by Ray Methods,
W76-10421 9-19 8B

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W76-00704 9-02 2I

HRISTMAS, J. Y.
Phase I: Area Description,
W76-09239 9-17 2L

Phase II: Hydrology,
W76-09240 9-17 2L

Phase IV: Biology,
W76-09242 9-17 2L

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W76-03482 9-07 5C

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W76-07106 9-14 5C

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W76-10434 9-19 2L

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W76-11632 9-22 5D

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Bi-Level Subsurface Drainage Theory,
W76-01847 9-04 2F

Field and Laboratory Evaluation of Bi-Level Drainage Theory,
W76-10934 9-20 4A

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W76-02366 9-05 3F

Pipe Size Selection for Community Irrigation Systems,
W76-00839 9-02 3F

CHU, T. Y.
Investigation of Roadway Drainage as Related to the Performance of Flexible Pavements,
W76-08534 9-16 8B

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W76-12841 9-24 2L

Turbulent Dense Plumes in a Laminar Cross Flow,
W76-02418 9-05 8B

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W76-01918 9-04 2I

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W76-10515 9-20 5A

Residual Organic Matter in Activated Sludge Process Effluents VIII. Separation by Molecular Weights on Sephadex Columns (Zbytkove latky po aktivacnim procesu VIII. Deleni podle molekulovych hmotnosti na sephadexech),
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W76-08761 9-17 5B

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W76-09772 9-18 5D

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W76-13173 9-24 2B

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W76-12973 9-24 8B

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Evaluation of a Recreational Lake Rehabilitation Project,
W76-00379 9-01 5A

CHURCHILL, R. R.
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W76-11156 9-21 6B

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W76-10255 9-19 5D

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Current Technology and Advances in True Re-Use of Effluents,
W76-09515 9-18 5D

CINELLI, F.
Preliminary Note on the Algal Population of the Sciophilous Surface Biotopes in the Exposed Mode, of the Island of Linosa (Strait of Sicily, Italy), (In French),
W76-07952 9-15 2L

CINI, R.
A Simple Physicochemical Method of Detecting Traces of Surfactants in Water,
W76-09927 9-18 5A

CIOFU, R.
The Chemical Composition of Asparagus Shoots as Affected by Soil Mulching, (In Romanian),
W76-07968 9-15 2I

CIRAVOLO, T. G.
Effect of Anaerobic Swine Lagoons on Groundwater Quality in High Water Table Soils,
W76-07190 9-14 5B

Pollutant Movement to Ground Water from Swine Waste Lagoons,
W76-03973 9-08 5B

CISNEROS, R. M.
The Phytoplankton of Canyon Lake, Arizona,
W76-02459 9-05 5C

CITRON, R.
Directory of EPA, State and Local Environmental Quality Monitoring and Assessment Activities.
W76-10623 9-20 5G

Network Design Considerations for the Global Environmental Monitoring System (GEMS) of the United Nations,
W76-10646 9-20 5A

CLABORN, B. J.
Variation of Urban Runoff Quality and Quantity with Duration and Intensity of Storms - Phase III - Volume 1--Dry Weather Flows,
W76-08278 9-16 5B

Variation of Urban Runoff Quality and Quantity with Duration and Intensity of Storms - Phase III, Volume 2, Impacts of Dust Storms,
W76-08279 9-16 2A

Variation of Urban Runoff Quality and Quantity with Duration and Intensity of Storms - Phase III, Volume 3 - Analysis of Flow Models,
W76-08280 9-16 2A

Variation of Urban Runoff Quality and Quantity with Duration and Intensity of Storms - Phase III, Volume 4 - Project Summary,
W76-08281 9-16 5B

CLADY, M. D.
Early Survival and Recruitment of Smallmouth Bass in Northern Michigan,
W76-12720 9-24 5C

CLAEYS, R. R.
Chlorinated Pesticides and Polychlorinated Biphenyls in Marine Species, Oregon/Washington Coast, 1972,
W76-08359 9-16 5A

CLAIBORN, B. A.
Impact of Changes in Irrigation water Management in Eastern Idaho,
W76-08925 9-17 3F

CLAPP, F. C.
Measurement of Snowpack Wetness,
W76-12162 9-23 2C

CLAPP, F. D.
Snow Wetness Measurements for Melt Forecasting,
W76-12165 9-23 2C

CLAPPERTON, C. M.
The Debris Content of Surging Glaciers in Svalbard and Iceland,
W76-07066 9-14 2C

CLARK, A. S.
Population Dynamics of Cladocerans in Sunfish Lake, Ontario,
W76-12407 9-23 2H

CLARK, B.
Field Determination of the Critical Nutrient Concentrations for Cladophora in Streams,
W76-13120 9-24 5C

CLARK, C. F.
Future Applications of Desalting Processes for Reduction of Industrial Water Pollution,
W76-03153 9-07 3A

CLARK, C. W.
The Economics of Fishing and Modern Capital Theory: A Simplified Approach,
W76-11140 9-21 6C

CLARK, D. W.
How to Build a Better Bench Sheet,
W76-09701 9-18 5D

CLARK, E. A.
Extended Aeration in a Combined Wastewater Treatment Plant,
W76-11373 9-21 5D

CLARK, F.
An Evaluation of Some Recreational, Demographic and Economic Impacts of Canyon Lake,
W76-05506 9-12 6B

CLARK, F. E.
Denitrification of Acid Wastes from Uranium Purification Processes,
W76-04843 9-10 5D

CLARK, F. H.
A Specific-Activity and Concentration Model Applied to Cesium Movement in an Oligotrophic Lake,
W76-10275 9-19 5C

CLARK, G. T.
Industrial Cost Recovery and User Charge Assessments,
W76-05813 9-12 5G

CLARK, J.
Rookery Bay: Ecological Constraints on Coastal Development,
W76-10741 9-20 6G

Rookery Bay Land Use Studies, Environmental Planning Strategies for the Development of a Mangrove Shoreline, Study No. 9, Principles of Ecosystem Management,
W76-05008 9-11 5G

CLARK, J. M.
System and Process for Bacterial Reduction of Wastes,
W76-02599 9-06 5D

CLARK, J. W.
Wisconsin's Groundwater: An Invaluable Resource,
W76-00881 9-02 2F

CLARK, K. B.
Biological Sampling of the Lagoonal Complex Surrounding KSC (Kennedy Space Center),
W76-01894 9-04 2L

CLARK, L. J.
Mathematical Model Studies of Water Quality in the Potomac Estuary,
W76-01497 9-03 5B

Summary and Conclusions: Nutrient Transport and Accountability in the Lower Susquehanna River Basin,
W76-06575 9-13 5B

CLARK, M.
Electrochemical Production of Free Radicals for Wastewater Treatment,
W76-10876 9-20 5D

Minimizing the Salt Burdens of Irrigation Drainage Waters,
W76-00828 9-02 3C

CLARK, M. J.
Biological Treatment of Combined Sewer Overflow at Kenosha, Wisconsin,
W76-00694 9-02 5D

CLARK, P. C.
Water Drainage from Highway Fills,
W76-11762 9-22 8D

CLARK, R.
Reservoir Impact Study,
W76-04501 9-10 6B

CLARK, R. A.
Hydrologic Implications of Canyon Dam and Reservoir,
W76-05503 9-12 2H

Interactive Effects of Salinity and Fertility on Yields of Grains and Vegetables,
W76-00741 9-02 3C

Which Pump.
W76-00416 9-01 8C

CLARK, R. B.
Application of Remote Sensing in Floodway Delineation,
W76-02244 9-05 7B

Impact of Chronic and Acute Oil Pollution on Sea Birds,
W76-11020 9-20 5C

Orbital and High Altitude Imagery as a Management Tool for Land use and Flood Hazard Studies,
W76-06262 9-13 4A

CLARK, R. C.
Biological Fate of Petroleum Hydrocarbons in Aquatic Macroorganisms,
W76-11014 9-20 5C

CLARK, R. C. JR.
Analytical Techniques for Isolating and Quantifying Petroleum Paraffin Hydrocarbons in Marine Organisms,
W76-10406 9-19 5A

Long-Term Chemical and Biological Effects of a Persistent Oil Spill Following the Grounding of the General M. C. Meigs,
W76-00139 9-01 5C

Methods for Establishing Levels of Petroleum Contamination in Organisms and Sediment as Related to Marine Pollution Monitoring,
W76-10403 9-19 5B

Uptake and Loss of Petroleum Hydrocarbons by the Mussel, Mytilus Edulis, in Laboratory Experiments,
W76-03656 9-08 5A

LARK, R. C. R.
Interagency Investigations of a Persistent Oil Spill on the Washington Coast. Animal Population Studies, Hydrocarbon Uptake by Marine Organisms, and Algae Response Following the Grounding of the Troopship General M.C. Meigs,
W76-09324 9-17 5C

LARK, R. E.
Arizona Ground Water Law: The Need for Legislation,
W76-00188 9-01 6D

Ground Water Law: Problem Areas,
W76-04334 9-09 4B

LARK, R. M.
Cost and Pricing Relationships in Water Supply,
W76-07145 9-14 3D

Pricing for Water Supply: Its Impact on Systems Management,
W76-04545 9-10 5G

LARK, R. N.
Effect of Cattle Feedyard Runoff on Soil Infiltration Rates,
W76-10538 9-20 5B

Plant Measurements as Indicators of Crop Water Deficit,
W76-10622 9-20 3F

Quantity and Quality of Beef Feedyard Runoff in the Great Plains,
W76-07196 9-14 5B

Seepage Beneath Feedyard Runoff Catchments,
W76-07186 9-14 5B

Sprinkler Evaporation Losses in the Southern Plains,
W76-13004 9-24 3F

LARK, T. L.
Use of Log-Normal Distributions for Numerical Calculations of Condensation and Collection,
W76-10694 9-20 2B

LARK, T. P.
Survey of Ground-Water Protection Methods for Illinois Landfills,
W76-00293 9-01 5B

LARKE, A. J.
Plant Collection for Saltland Revegetation and Soil Conservation,
W76-09071 9-17 2I

LARKE, G. K. C.
Temperature Measurements in Fox Glacier, Yukon Territory,
W76-01251 9-03 2C

The Thermal Regime of Trapridge Glacier and Its Relevance to Glacier Surging,
W76-05916 9-12 2C

CLARKE, K. F.
Use of Investment Models for the Long-Term Planning of a Water Resource System for England and Wales,
W76-12557 9-23 6A

CLARKE, M. D.
Schistosomiasis and Other Human Parasitoses of Lake Lindu in Central Sulawesi (Celebes), Indonesia,
W76-12573 9-23 5C

CLARKE, N. A.
Health Aspects of Poultry Waste Disposal,
W76-00917 9-02 5E

A Virus-In-Water Study of Finished Water From Six Communities,
W76-12866 9-24 5A

CLARKE, R. T.
The Use of Likelihood Functions to Fit Conceptual Models with More than One Dependent Variable,
W76-08729 9-16 2G

CLARKE, T. L.
Possible Bottom Current Response to Surface Winds in the Hudson Shelf Channel,
W76-02706 9-06 2L

CLARKSON, J. W.
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W76-10494 9-19 2C

CLARY, W. P.
Effects of Pinyon-Juniper Removal on Natural Resource Products and Uses in Arizona,
W76-08108 9-16 4C

Multiple use Effects of Manipulating Pinyon-Juniper,
W76-02723 9-06 3B

Pinyon-Juniper Control--Does it Pay,
W76-08110 9-16 4A

Present and Future Multiple use Demands on the Pinyon-Juniper Type,
W76-08430 9-16 4A

CLAUS, G.
Method and Apparatus for Continuous Monitoring of Dissolved Organics,
W76-02213 9-05 5A

CLAUSEN, C. D.
Effect of Temperature and Temperature Adaptation on Calcification Rate in the Hermatypic Coral Pocillopora Damicornis,
W76-10059 9-19 5C

CLAUSEN, E.
Comparison of the New Millipore HC with Conventional Membrane Filters for the Enumeration of Fecal Coliform Bacteria,
W76-05069 9-11 5A

CLAUSEN, J. C.
A Hydronomic Analysis of Forest Management Alternatives for Environmental Quality: A Case Study of Itasca County,
W76-02362 9-05 6B

CLAUSNITZER, J.
Characterizing the Soil Moisture Dynamics of Loess-Braunstaughley Soils in the Leoss Loam Hilly Tract of Northwest Saxony, (In German),
W76-06726 9-13 2G

CLAYTON, J. T.
Treatment and Disposal of Animal Wastes in Massachusetts,
W76-04418 9-09 5D

CLAYTON, L.
Effects of Groundwater Seepage on Stream Regiment,
W76-02629 9-06 2J

CLEASBY, J. L.
Developments in Backwashing of Granular Filters,
W76-01745 9-04 5D

Effect of Media Intermixing on Dual Media Filtration,
W76-00223 9-01 5D

Expanding a 1927 Water Plant for the 1970's,
W76-01558 9-04 5F

CLEAVES, E. T.
Cockeysville Quadrangle: Geology, Hydrology and Mineral Resources,
W76-04407 9-09 7C

CLELAND, M. R.
Use of High-Power Electron Beam Radiation for the Treatment of Municipal and Industrial Wastes,
W76-09537 9-18 5D

CLEM, A. G.
Method and Composition for Preventing Water Contaminated with Industrial Waste from Seeping Through Soil Containing Said Water,
W76-09858 9-18 5G

CLEMENT, W. H.
A New Convenient Method for Determining Arsenic(+3) in Natural Waters,
W76-08027 9-15 5A

CLEMENTE, G. F.
Instrumental Method for the Determination of Trace Elements in Water Samples by Neutron Activation Analysis,
W76-05998 9-12 5A

CLEMENTS, E. V. III.
Demonstrated Technology and Research Needs for Reuse of Municipal Wastewater,
W76-00692 9-02 5D

Municipal Wastewater Reuse in the U.S.,
W76-02189 9-05 5D

CLESCERI, L. S.
Lake George Site Synthesis, 1974-1975.
W76-12937 9-24 5C

Microdynamics of Detritus Formation and Decomposition and its Role as a Stabilization Influence in Freshwater Lakes,
W76-05459 9-11 5C

CLESCERI, N. L.
A Description of the Trophic Status and Nutrient Loading for Lake George, New York,
W76-05638 9-12 5C

Distribution of Metals in Lake Sediments of the Adirondack Region of New York State,
W76-05475 9-11 5C

Lake George Site Synthesis, 1974-1975.
W76-12937 9-24 5C

Nutrient Inputs to a Lake and Their Effects Upon Water Quality,
W76-00104 9-01 5C

CLESCERI, N. L.

Seasonal Variations in the Purification of Treatment Plant Effluent in Natural Sand Deposits,
W76-13121 9-24 5D

Sources and Distribution of Trace Metals in Aquatic Environments,
W76-01651 9-04 5B

Water Renovation Using Deep Natural Sand Beds,
W76-01765 9-04 5D

CLIFFORD, R. K.
Characterization of Sulfide Mineral Surfaces in Froth Flotation Systems using Electron Spectroscopy for Chemical Analysis,
W76-10635 9-20 5D

CLIFFORD, W. M.
Legal Problems of Marina Construction and Channel Marker Installation in Florida,
W76-12052 9-22 6E

CLINE, D. R.
Reconnaissance of the Water Resources of the Upper Klickitat River Basin, Yakima Indian Reservation, Washington,
W76-07594 9-15 4A

CLINGENPEEL, W. H.
Design for Joint Treatment of Municipal and Paper Mill Waste at Lynchburg, Virginia,
W76-00042 9-01 5D

CLINTON, F. A.
Michigan Demonstration Erosion Control Program,
W76-00313 9-01 8B

CLINTON, J.
An Experiment in the Eutrophication of Terrestrial Ecosystems with Sewage: Evidence of Nitrification in a Late Successional Forest,
W76-03555 9-08 5C

Experimental Eutrophication of Terrestrial and Aquatic Ecosystems. First Annual Report of the Upland Recharge Project,
W76-01155 9-03 5D

CLISSOLD, R. J.
Yukon City's New Well Replaces Five Older Ones,
W76-05566 9-12 4B

CLONTZ, J. M.
V-Notch Weir Aids in Metering Treated Effluents,
W76-03790 9-08 5A

CLOSE, E. R.
Techniques for Water demand Analysis and Forecasting: Puerto Rico, a Case Study,
W76-03407 9-07 6D

CLOSMANN, P. J.
An Aquifer Model for Fissured Reservoirs,
W76-03370 9-07 2F

CLOTHIER, W. D.
Pollution From Non-Point Sources,
W76-09232 9-17 5B

CLOUGH, C. F.
Wastewater Research Facility Designed for Comparative Testing,
W76-09031 9-17 5D

CLOUSTON, J. G.
An Evaluation of the Use of Gamma Radiation in Sewage Treatment,
W76-05803 9-12 5D

CLUBB, R. W.
Acute Cadmium Toxicity Studies Upon Nine Species of Aquatic Insects,
W76-10342 9-19 5C

Synergism Between Dissolved Oxygen and Cadmium Toxicity in Five Species of Aquatic Insects,
W76-10345 9-19 5C

CLUFF, C. B.
Conflicts in Water Transfer from Irrigation to Municipal Use in Semiarid Environments,
W76-04932 9-10 6E

Development of a Mathematical Model of Infiltration which Includes the Effects of Raindrop Impact,
W76-08844 9-17 2G

Development of Asphalt Cushioned Plastic Reinforced Asphalt Membranes for Seepage Control,
W76-01812 9-04 3B

Metropolitan Operated District for Sewage Effluent-Irrigation Water Exchange,
W76-02228 9-05 5D

CLUSEN, R. C.
The Role of Social Scientists in the Determination of the Social Well-Being and Quality of Life Dimension in Water Resources,
W76-05357 9-11 6B

CLYDE, C. G.
Capability of Integer Programming Algorithms in Solving Water Resource Planning Problems,
W76-05183 9-11 6A

The Demand for Agricultural Water in Utah,
W76-02383 9-05 6D

Development of a Water Quaity Simulation Model Applicable to Great Salt Lake, Utah,
W76-10815 9-20 5B

Development of Regional Supply Functions and a Least-Cost Model for Allocating Water Resources in Utah: A Parametric Linear Programming Approach,
W76-02876 9-06 6A

The Economic Efficiency of Inter-Basin Agricultural Water Transfer in Utah: A Mathematical Programming Approach,
W76-01341 9-03 4A

CLYDE, E. W.
Coal Mining, Development and Processing -- The Associated Water Problems,
W76-10727 9-20 6E

COACHMAN, L. K.
University of Washington Water Stress Studies,
W76-01485 9-03 2C

COAKLEY, P.
Sludge Activity and Full-Scale Plant Control,
W76-00252 9-01 5D

COATE, L. E.
Some Practical Problems in Developing and Presenting Environmental Quality Indices to the Public,
W76-11246 9-21 5G

COATS, D. J.
Water Resources in Northumbria with Particular Reference to the Kiedler Water Scheme,
W76-03824 9-08 6E

COBB, C. B.
Oil Spill Control, Part 1: Prevention,
W76-06977 9-14 5G

COBET, A. B.
Effect of a Bunker Fuel on the Beach Bacterial Flora,
W76-09326 9-17 5C

The Fate of a Bunker Fuel in Beach Sand,
W76-09328 9-17 5C

COBIAN, K. E.
Continued Evaluation of In-Situ-Formed Condensation Polymers for Reverse Osmosis Membranes,
W76-08116 9-16 3A

In Situ-Formed Condensation Polymers for Reverse Osmosis: Second Phase,
W76-03151 9-07 3A

In-Situ-Formed Condensation Polymers for Reverse Osomsis Membranes-Final report,
W76-03259 9-07 3A

COBURN, J. A.
Gas-Liquid Chromatographic Determination of 3-Trifluoromethyl-4-Nitrophenol in Natural Waters,
W76-12486 9-23 5A

COCCHIONI, M.
Presence of Insecticides in Surface Waters After Conditioning Treatment, (In Italian),
W76-13160 9-24 5F

COCHRAN, A.
A Selected Annotated Bibliography on Fish and Wildlife Implications of Missouri Basin Water Allocation,
W76-10825 9-20 4C

COCHRAN, G. F.
Quality of Water Considerations in Arid Area Water Management,
W76-10608 9-20 5B

COCHRAN, K. W.
Airborne Coliphages from Wastewater Treatment Facilities,
W76-12921 9-24 5A

COCHRAN, R. C.
Environmental Regulation of the Annual Reproductive Season of Strongylocentrotus Purpuratus (Stimpson),
W76-10888 9-20 5C

COCKROFT, B.
The Effect of Soil Water on Root Production of Peach Trees in Summer,
W76-04561 9-10 3F

CODELL, R. B.
Two-Dimensional Model of Flow Toward Intakes,
W76-09965 9-18 2E

CODISPOTI, L. A.
Nutrient Transports Through Lancaster Sound in Relation to the Arctic Ocean's Reactive Silicate Budget and the Outflow of Bering Strait Waters.
W76-10717 9-20 5B

COELHO, M. A.
Spatial Variability of Water Related Soil Physical Properties,
W76-02676 9-06 2G

)FFEY, B. T.
Eurasian Water-Milfoil in Michigan,
W76-06149 9-12 5G

)FONE, L. JR.
Microbial Petroleum Degradation: The Role of Cladosporium Resinae,
W76-09327 9-17 5C

)GAN, J. L.
Measurement of Sea Surface Temperature by the NOAA 2 Satellite,
W76-07072 9-14 2L

)HEN, A. I.
A Quantitative Method for Effluent Compliance Monitoring Resource Allocation,
W76-02269 9-05 5G

Studies on Operations Planning and Control of Water Distribution Systems,
W76-00506 9-02 6A

)HEN, B. L.
Pittsburgh Rainwater Analysis by Pixe,
W76-07555 9-15 5A

)HEN, D.
Relationships Between Leaf Water Status, Abscisic Acid Levels, and Stomatal Resistance in Maize and Sorghum,
W76-01117 9-03 2I

)HEN, D. B.
Aerobic Stabilization of Waste Activated Sludge - An Experimental Investigation,
W76-02076 9-05 5D

Recycling of Liquid Digested Sewage Sludge on Dredged River Sand,
W76-10501 9-20 5D

:OHEN, J. J.
Cost Effectiveness of Release Prevention Controls for Tritium and Krypton-85,
W76-09506 9-18 5G

:OHEN, J. M.
Ammonia Removal from Wastewater by Ligand Exchange,
W76-12611 9-23 5D

Comparative Effects of Chemical Pretreatment on Carbon Adsorption,
W76-11209 9-21 5D

:OHEN, W. M.
Indicators of Change in the Recreation Environment: Law and Environmental Planning,
W76-04328 9-09 6G

:OHN, M. B.
An Analysis of U. S. Environmental Protection Agency's Needs Survey,
W76-08195 9-16 5G

:OHN, M. M.
The Helical Bend Combined Sewer Overflow Regulator,
W76-07246 9-14 5D

:OKER, A. E.
Water Management Model in Florida from ERTS-1 Data,
W76-00096 9-01 7B

:OKER, R. D.
Emission of Sulfur from Lake Ontario Sediments,
W76-12987 9-24 2J

COLBECK, S. C.
Analysis of Hydrologic Response to Rain-on-Snow,
W76-11866 9-22 2C

An Analysis of Water Flow in Dry Snow,
W76-11865 9-22 2C

Measurements of the Dielectric Properties of Wet Snow Using a Microwave Technique,
W76-02398 9-05 2C

COLCORD, J. E.
Engineering Uses of EROS,
W76-11765 9-22 7B

LANDSAT-1 Imagery in Hydrologic Studies,
W76-02163 9-05 7B

COLDRICK, J.
Sewage as a Resource,
W76-05066 9-11 5D

COLDRICK, J. R.
Re-Use of Sewage Effluent and Sludge,
W76-03326 9-07 5D

COLE, C. A.
Odor Control with Hydrogen Peroxide,
W76-12932 9-24 5D

COLE, C. F.
A Model of Alewife Migration in the Parker River, Massachusetts for Simulating an Optimal Anadromous Fish Stock Management Program,
W76-02868 9-06 8I

COLE, D. W.
Evolution of the Cations Involved in Rain, Canopy Leachate and Drainage Water through a Forest Ecosystem, (In French),
W76-11540 9-21 2G

Nutrient Cycling in 37- and 450-Year-Old Douglas-Fir Ecosystems,
W76-05619 9-12 5B

COLE, E. J.
Some of the Growth Characteristics of Gonyaulax Tamarensis Isolated from the Gulf of Maine,
W76-07617 9-15 5C

COLE, E. L.
Coking of Waste Kraft Pulping Liquors at Lowered pH,
W76-07761 9-15 5D

Process for Converting Aqueous Sewage to Potable Water,
W76-11215 9-21 5D

Process for Treating Water-Soluble Organic Wastes,
W76-08482 9-16 5D

COLE, J. E.
Biological Survey of the Savannah River in the Vicinity of the Savannah River Project. Part I - Report on the Work Done and Tentative Conclusions on the Summer Survey,
W76-10041 9-19 5C

COLE, R. A.
An Ecological Evaluation of a Thermal Dischare: Summary of Early Postoperational Studies,
W76-04579 9-10 5C

An Ecological Evaluation of a Thermal Discharge: Part 1: Physical and Chemical Limnology Along the Western Shore of Lake Erie,
W76-04572 9-10 1A

An Ecological Evaluation of a Thermal Discharge: Preoperational Studies, 1970-1971,
W76-04580 9-10 5C

COLE, R. M.
The Movement of Melting Ice over Rough Surfaces,
W76-05671 9-12 2C

COLE, S.
Residual Chlorine: Something New to Worry About,
W76-03071 9-07 5D

COLEMAN, D. E.
A Simulation Model for Long-Term Forecasting of Waste Loadings from Population, Land Use, and Economic Activities in the Great Lakes Basin,
W76-11320 9-21 5B

COLEMAN, E.
Some Physical and Economic Aspects of Water Pollution Control for Cattle Feedlot Runoff,
W76-01034 9-03 5E

COLEMAN, E. A.
Cattle Feedlot Pollution Study,
W76-01045 9-03 5E

A Systems Approach to Cattle Feedlot Pollution Control,
W76-00446 9-01 5G

COLEMAN, J. H.
Some Observations on Cooling-Tower Plume Behavior at the Paradise Steam Plant,
W76-04809 9-10 5B

COLEMAN, J. M.
Beach Dynamics and Nearshore Morphology of the Beaufort Sea Coast, Alaska,
W76-12820 9-24 2L

Mass Movement of Mississippi River Delta Sediments,
W76-01322 9-03 2L

Mississippi River Mouth Processes: Effluent Dynamics and Morphologic Development,
W76-01321 9-03 2L

COLEMAN, M. S.
Aquaculture as a Means to Achieve Effluent Standards,
W76-03554 9-08 5D

COLEMAN, N. T.
Rate of Chloride and Water Movement in Southern California Soils,
W76-08545 9-16 2G

COLER, R. A.
Statistical Study of the Duckweed Rhizosphere as an Eco-Assay Tool,
W76-05605 9-12 5B

COLERIDGE, S. E.
Selective Toxicity of Detergents and Herbicides to Phytoplankton,
W76-05181 9-11 5C

COLIN, P.
Method for Treating Solutions Containing Cyanohydrins,
W76-07511 9-15 5D

COLL, M. B. JR.
Map Showing Selected Extreme-Streamflow Statistics and Drainage Areas, Greater Pittsburgh Region, Pennsylvania,
W76-11671 9-22 7C

COLLIER, B. N.
Chemistry and Effects of Chlorine in Aquatic Systems, A Selected, Annotated Bibliography,
W76-08592 9-16 5C

Striped Bass, A Selected, Annotated Bibliography,
W76-04840 9-10 6E

COLLIER, C. G.
The Measurement of Heavy Rainfall Over Small Catchments Using Radar,
W76-00300 9-01 2B

A Representation of the Effects of Topography on Surface Rainfall Within Moving Baroclinic Disturbances,
W76-00312 9-01 2B

COLLIER, R.
Chemical Dynamics of a Polluted Watershed, the Merrimack River in Northern New England,
W76-12833 9-24 5B

COLLIN, M. L.
Geochemical and Sedimentological Analysis of Tygart Lake, West Virginia,
W76-00376 9-01 5B

COLLINS, B. P.
Suspended Material Transport: Narragansett Bay Area, Rhode Island,
W76-08139 9-16 2L

COLLINS, C. A.
The Dynamic Structure of the Frontal Zone in the Coastal Upwelling Region Off Oregon,
W76-06695 9-13 2L

COLLINS, E. R. JR.
Effect of Anaerobic Swine Lagoons on Groundwater Quality in High Water Table Soils,
W76-07190 9-14 5B

Pollutant Movement to Ground Water from Swine Waste Lagoons,
W76-03973 9-08 5B

COLLINS, E. W.
Recovery of Feldspar and Glass Sand from Georgia Waste Granite Fines,
W76-04073 9-09 5D

COLLINS, G. A.
Chemical Applications in Oil and Gas Well-Drilling and Completion Operations,
W76-08903 9-17 8G

COLLINS, J. I.
Tests on the Equilibrium Probiles of Model Beaches and the Effects of Grain Shape and Size Distribution,
W76-10422 9-19 2L

COLLINS, J. W.
Purification of Lignosulfonates by Dynamic Membrane Ultrafiltration,
W76-10868 9-20 5D

Research on the Mechanisms for Removal of Soluble BOD(5) in Clarifier Systems,
W76-11378 9-21 5D

COLLINS, M. A.
The Extended Boussinesq Problem,
W76-07786 9-15 2F

Optimal Operating Policy for Multiple Metropolitan Water Supply Reservoir Systems: Appendices, (Vol. 2),
W76-10605 9-20 6A

Optimal Operating Policy for Multiple Metropolitan Water Supply Reservoir Systems: Theory and Applications, (Vol 1),
W76-10604 9-20 6A

Solving Discrete-Variable Multiple-Constraint Non Linear Programs: The Decision State Method, (Vol. 3),
W76-10606 9-20 6A

COLLINS, M. B.
Suspended-Sediment Sampling Towers as used on the Intertidal Flats of the Wash, Eastern England,
W76-07087 9-14 2L

COLLINS, R. P.
Identification of Stable Organic Compounds in Waste Effluent,
W76-11338 9-21 5A

COLLINS, S.
The Role of High Rate Bio-Filters in the Leather Industry,
W76-08180 9-16 5D

COLLINS, T. T.
Comparative Atomic Absorption Spectroscopic Study of Trace Metals in Lake Water,
W76-02511 9-06 5A

Comparative Atomic Absorption Spectroscopic Study of Trace Metals in Lake Water,
W76-05051 9-11 5A

COLLINSON, C.
Bluff Erosion, Recession Rates, and Volumetric Losses on the Lake Michigan Shore in Illinois,
W76-12686 9-24 2J

COLLINSON, J. D.
The Size and Shape of Small-Scale Current Ripples: An Experimental Study Using Medium Sand,
W76-03854 9-08 2J

COLLOS, Y.
An Automated Assay for the Determination of Nitrate Reductase in Marine Phytoplankton,
W76-12940 9-24 5C

Significance of Cellular Nitrate Content in Natural Populations of Marine Phytoplankton Growing in Shipboard Cultures,
W76-12936 9-24 5C

COLOMB, P.
Lamella Settling Tanks (Lamella-Absetzbecken),
W76-09003 9-17 5F

COLONELL, J. M.
Field Evaluation of a Predictive Model for Thermal Stratification in Lakes and Reservoirs,
W76-08920 9-17 2H

COLONY, R.
The Thickness Distribution of Sea Ice,
W76-04696 9-10 2C

COLORNI, A.
Reservoir Management Via Reliability Programming,
W76-05508 9-12 4A

COLSON, B. E.
Flood Frequency of Mississippi Streams,
W76-11083 9-20 4A

COLSTON, N. V.
Waste Control and Abatement in the Processing of Sweet Potatoes,
W76-03636 9-08 5D

COLTON, J. B.
Distribution of Tar Balls and Neuston Sampling in the Gulf Stream System,
W76-10410 9-19 5B

COLTON, J. B. JR
Plastic Particles in Surface Waters of the Northwestern Atlantic,
W76-11889 9-22 5B

COLTON, R. B.
Map Showing Potential Sources of Gravel and Crushed-Rock Aggregate in the Boulder-Fort Collins-Greeley Area, Front Range Urban Corridor, Colorado,
W76-12789 9-24 7C

COLWELL, R. R.
Bacteriological Studies of Wicomico River Soft-Shell Clam (Mya Arenaria) Mortalities,
W76-00873 9-02 5C

Deep-Sea Bacteria: Growth and Utilization of Hydrocarbons at Ambient and in Situ Pressure,
W76-10349 9-19 5B

Effect of South Louisiana Crude Oil and No. 2 Fuel Oil on Growth of Heterotrophic Microorganisms, Including Proteolytic, Lipolytic, Chitinolytic and Cellulolytic Bacteria,
W76-03054 9-07 5C

Effects of Petroleum on Estuarine Bacteria,
W76-11814 9-22 5C

Metabolism of Mercury Compounds in Microorganisms,
W76-10894 9-20 5C

Microbial Degradation of Model Petroleum at Low Temperatures,
W76-09648 9-18 5C

Microbial Ecology of Petroleum Utilization in Chesapeake Bay,
W76-09319 9-17 5C

Microbial Petroleum Degradation: Use of Mixed Hydrocarbon Substrates,
W76-10350 9-19 5B

Petroleum Hydrocarbons: Degradation and Growth Potential for Atlantic Ocean Sediment Bacteria,
W76-10068 9-19 5C

Role of Bacteria in Bioaccumulation of Mercury in the Oyster Crassostrea Virginica,
W76-01102 9-03 5B

Seasonal Occurrence and Distribution of Microbial Indicators and Pathogens in the Rhode River of Chesapeake Bay,
W76-05052 9-11 5B

Survival of Human Pathogens in the Marine Environment,
W76-10890 9-20 5C

COLYER, D.
Legal Remedies for Pollution Abatement,
W76-01403 9-03 5G

COMBARNOUS, M. A.
Hydrothermal Convection in Saturated Porous Media,
W76-06415 9-13 2F

IBRINCK, C.
ergy Content of the Benthos and Epifauna in e Pongola River, Natal, (In Afrikaans),
76-08158 9-16 2I

IER, G. H.
n Optimization Technique Adapted to SDAHL-74 Revised Model of Watershed ydrology,
76-08523 9-16 2A

ot-Derived Parameters for Basin Computa- ons,
76-12438 9-23 2A

MES, R. D.
CA In Irrigation Water After Bank Treat- ents for Weed Control,
76-00706 9-02 5B

MINETTA, G.
omplete Recovery of Italian In-Plant Waste Vaters,
76-04053 9-09 5D

MITA, G. W.
Limnological Study of Spiritwood Lake, N. ., with Special Emphasis on Its Water Quali- , Seasonal Cycles of Chemical Nutrients, hytoplankton, Zooplankton and Primary roduction, Part I: Photosynthetic Production nd Energy Conversion in Spiritwood Lake, orth Dakota,
W76-12213 9-23 5C

MMON, M. S.
The Economics of Pollution and its Control,
W76-04542 9-10 5G

MMONER, B.
ertilizer Application Rates and Nitrate Con- entrations in Illinois Surface Waters,
W76-00290 9-01 5B

MPTON, P. R.
A Guide to Methods and Standards for the Measurement of Water Flow,
W76-13000 9-24 8B

MSTOCK, V. M.
Apparatus for Continuously Saturating Water with Hydrophobic Organic Chemicals,
W76-03047 9-07 5A

NDOLIOS, E.
Method and Apparatus for Compacting Fluid Sludges,
W76-04278 9-09 5D

NDON, W. R.
Tunneling Makes Riverside Interceptor Feasi- ble,
W76-00778 9-02 5D

NDRA, G. D.
The Effect of Changing Input andProduct Prices on the Demand for Irrigation Water in Texas,
W76-10810 9-20 3F

NEY, T.
Remote Sensing Study of Maumee River Ef- fects on Lake Erie,
W76-12819 9-24 5A

NGLETON, J. L.
Development of Biological Design Criteria for Fish Screens and Barriers,
W76-08662 9-16 8I

Simple Flume for Guidance and Impingement Studies,
W76-07213 9-14 8I

CONKLIN, F. S.
Economic Evaluation of Proposed Water Conservation Practices on Established Irrigation Districts: A General Methodology and Application to Three Districts in Oregon,
W76-08431 9-16 3F

CONNELL, J. F.
Factors Affecting Water Quality from Strip-Mined Sites,
W76-07582 9-15 5B

CONNELL, W. A.
Mites on Soybeans: Moisture and Temperature Relations,
W76-11604 9-21 3F

CONNER, J. R.
Disposal of Liquid Wastes by Chemical Fixation,
W76-07500 9-15 5E

CONNOR, J.
Two-Dimensional Finite Element Dispersion Model,
W76-10453 9-19 5B

CONNOR, J. T.
Zero Discharge: National Goal or National Calamity,
W76-12014 9-22 5G

CONNOR, L. J.
Economic Impacts of Alternative Water Pollution Control Rules on Beef Feedlots of Less Than 1000 Head Capacity,
W76-07158 9-14 5D

Economic Research Pertaining to Problems of Livestock Waste Management and Pollution Control,
W76-07157 9-14 5G

Impacts of Imposing Selected Pollution Controls,
W76-03982 9-08 5G

A Summary of State Regulations Pertaining to Animal Waste Management in the North Central Region of the United States,
W76-11060 9-20 5G

CONOMOS, T. J.
Movement of Spilled Oil in San Francisco Bay as Predicted by Estuarine Nontidal Drift,
W76-10385 9-19 5B

Processes Controlling the Dissolved Silica Distribution in San Francisco Bay,
W76-07107 9-14 5C

CONOVER, S. A. M.
Nitrogen Utilization During Spring Blooms of Marine Phytoplankton in Bedford Basin, Nova Scotia, Canada,
W76-08691 9-16 5C

CONRAD, E. T.
Outlooks for the Future of Deep Well Disposal,
W76-12370 9-23 5E

CONRAD, J. R.
Anaerobic Processes, (Literature Review),
W76-12673 9-23 5D

CONSTANT, A. E.
Marine Pollution Control: Part III--Ship Design Requirements: The Design Approach,
W76-06196 9-13 5D

CONSTANTINE, T. A.
Development of Design Guidelines for Shore - Side Holding Tanks.
W76-07681 9-15 5D

CONTE, F. S.
Effect of Aerially-Applied Malathion on Juvenile Brown and White Shrimp Penaeus Aztecus and P. Setiferus,
W76-03767 9-08 5C

CONTRACTOR, D. N.
Factors Affecting Water Quality from Strip-Mined Sites,
W76-07582 9-15 5B

Finite Element Simulation of Flood Hydrographs,
W76-00303 9-01 2E

Modeling the Effect of Waste Discharges in a Small Mountain Stream,
W76-05834 9-12 5B

Models to Predict Environmental Impact of Mine Drainage on Streams,
W76-04944 9-10 5B

CONVERSE, J. C.
Evaluation of a Soil Nitrate Transport Model,
W76-07453 9-15 5B

Impact of Freezing and Thawing Soil Conditions on the Movement of Nutrients From Rural Lands,
W76-00502 9-02 5B

Nutrient Losses in Surface Runoff From Winter Spread Manure,
W76-12993 9-24 5B

Properties of Solids and Liquids from Stacked Manure,
W76-07197 9-14 5A

CONVERSE, J. S.
Nutrient Losses from Manure Under Simulated Winter Conditions,
W76-07187 9-14 5B

CONWAY, K. E.
Biological Control of Water Weeds with Plant Pathogens,
W76-11904 9-22 4A

CONYERS, J. C.
Winter Fauna in a Thermal Discharge with Observations on a Macrobenthos Sampler,
W76-03488 9-07 5C

COODK, W. G.
The Pyrolysis of Extracted Solids from Oxidized Kraft Black Liquor After Lignin Precipitation,
W76-07644 9-15 5D

COOGAN, A. H.
Problems of Groundwater Rights in Ohio,
W76-11980 9-22 4B

COOK, B. A.
Continued Studies (Phase II) in the Search for A Predictive Model for Sludge Characterization Useful to Design and Control of Sludge Dewatering Processes in Water Recycle Systems,
W76-11116 9-21 5D

COOK, C. D. K.
Water Plants of the World. A Manual for the Identification of the Genera of Freshwater Macrophytes,
W76-06745 9-13 2I

COOK, D. W.
The Effect of Mirex and Carbofuran on Estuarine Microorganisms,
W76-01864 9-04 5B

Pathogenicity Studies with a Streptococcus SP. Isolated from Fishes in an Alabama-Florida Fish Kill,
W76-01922 9-04 5C

COOK, E.
Reservoir Impact Study,
W76-04501 9-10 6B

Some Economic and Decision Aspects of the Canyon Project,
W76-05505 9-12 6B

COOK, G. H.
Mirex Residues in Selected Estuaries of South Carolina: June 1972,
W76-05954 9-12 5A

COOK, J. P.
Evaluation of Surface Water Resources from Machine-Processing of ERTS Multispectral Data,
W76-00833 9-02 5G

COOK, J. R.
Nebraska Flood-Plain Management Program--Part II,
W76-07216 9-14 6F

COOK JR, E. H.
Process for Electrolysis of Brine,
W76-09053 9-17 5D

COOK, O. F.
Waste Converter,
W76-01539 9-04 5E

COOK, P. M.
X-Ray Diffraction and Electron Beam Analysis of Asbestiform Minerals in Lake Superior Waters,
W76-11248 9-21 5A

COOK, P. W.
The Effects of Cadmium on Freshwater Phytoplankton,
W76-12152 9-23 5C

COOK, R. H.
Practical Application of the Toxicity Emission Rate Concept in a Survey of Maritime Pulp and Paper Mills,
W76-09293 9-17 5A

COOK, W. R.
Polymers Solve Waste Water Problems,
W76-07527 9-15 5D

COOKE, G. D.
A Comparison of Phosphorus and Water Contributions by Snowfall and Rain in Northeast Ohio,
W76-11858 9-22 5B

COOKSEY, B. G.
Interferences in the Electroanalytical Determination of Copper and Lead in Water and Waste Water,
W76-05045 9-11 5A

COOKSON, J. T. JR.
Influence of Surface Oxides on Adsorption and Catalysis with Activated Carbon,
W76-00112 9-01 5D

COOLEY, A. M.
Separation, Dewatering and Disposal of Sugar Beet Transport-Water Solids,
W76-02783 9-06 5D

COOLEY, J. H.
Irrigation of Trees and Crops With Sewage Stabilization Pond Effluent in Southern Michigan,
W76-03560 9-08 5C

COOLEY, K. R.
Water Harvesting: State of the Art,
W76-06584 9-13 3B

COOLEY, M. E.
Spring Flow from Pre-Pennsylvania Rocks in the Southwestern Part of the Navajo Indian Reservation, Arizona,
W76-11673 9-22 2F

COOLEY, R. L.
A Review and Synthesis of the Biot and Jacob-Cooper Theories of Ground-Water Motion,
W76-04003 9-09 2F

Uniqueness of a Model of Steady-State Ground-Water Flow,
W76-01526 9-04 2F

COOMBS, T. L.
A Comparison of Trace-Metal and Metalloenzyme Profiles in Different Molluscs and During Development of the Oyster,
W76-10334 9-19 5C

COONEY, J. J.
Microbial Petroleum Degradation: The Role of Cladosporium Resinae,
W76-09327 9-17 5C

COONEY, R. T.
Environmental Studies of an Arctic Estuarine System,
W76-02075 9-05 2L

Oceanographic Conditions During 1973 in Russel Fjord, Alaska,
W76-08525 9-16 2L

COOPER, C.
Case Study of a Hydroelectric Dam: The Dickey-Lincoln School Project,
W76-04347 9-09 6G

COOPER, C. A.
Optimal Allocation of Measurement and Control Resources with Application to River Depollution,
W76-10017 9-19 5A

COOPER, C. M.
The Effects of Variations in Turbidity on Cycles of Planktonic and Benthic Organisms in Flood Control Reservoirs,
W76-11172 9-21 5C

COOPER, C. O.
Stream Channel Modification to Enhance Trout Habitat Under Low Flow Conditions,
W76-04724 9-10 8I

COOPER, D. J.
Total--New Grass-Roots Plant for the Dutch,
W76-05282 9-11 5D

COOPER, D. R.
The Effect of Manganese and Neutralisation on the Removal of Sulphide and Oxygen Demand in Fellmongery Effluent,
W76-04770 9-10 5D

An Experimental Study of the Removal of Sulphide in the Aeration of Fellmogery Effluent,
W76-04772 9-10 5D

Recent Developments in Tannery Effluent Disposal,
W76-12425 9-23 5D

COOPER, D. W.
Measurement of Lake Ice Thickness with a Short-Pulse Radar System,
W76-11753 9-22 7D

COOPER, E. R.
Systematic Development of Methodologies in Planning Urban Water Resources for Medium Size Communities: Population Characteristics and Residential Water Use,
W76-11177 9-21 6B

COOPER, F. C.
Retooling the Water Works Industry,
W76-03809 9-08 5F

COOPER, J. C.
Electrophysiological Studies of Morpholine-Imprinted Coho Salmon (Oncorhynchus Kisutch) and Rainbow Trout (Salmo Gairdneri),
W76-08438 9-16 5C

Experimental Confirmation of the Olfactory Hypothesis with Homing, Artificially Imprinted Coho Salmon (Oncorhynchus Kisutch),
W76-08439 9-16 5C

COOPER, J. E.
Effect of Flocculants on the Sedimentation of Organic Solids in Tannery Unhairing Effluents,
W76-08164 9-16 5D

COOPER, J. H.
The Santee Swamp as a Nutrient Sink,
W76-10288 9-19 5C

COOPER, J. L.
Vertical Distribution Patterns of Goldeye, Hiodon Alosoides, in Fort Peck Reservoir, Montana,
W76-11333 9-21 2H

COOPER, J. S.
Scientific Symposium on Dairy Effluent Treatment,
W76-01632 9-04 5D

COOPER, K. G.
Secondary Impacts of Transportation and Wastewater Investments: Research Results,
W76-02757 9-06 5C

COOPER, P. C.
Synergistic Effects of Irradiation of Waste-Water.
W76-09524 9-18 5D

COOPER, P. F.
Review of Advanced Treatment Techniques for Waste Water,
W76-09159 9-17 5D

COOPER, R.
Environmental Quality Research, First Annual Report,
W76-09654 9-18 5C

COOPER, R. C.
Preliminary Studies of Asbestiform Fibers in Domestic Water Supplies,
W76-12325 9-23 5A

OPER, R. J.
Silver Recovery Device for Photo Fixer Solutions,
W76-02587 9-06 5D

OPER, R. N.
An Economist's View of the Oceans,
W76-09617 9-18 6E

OOPER-RUSKA, C.
A Legal-Historical Analysis of Navigation User Charges,
W76-12532 9-23 6E

OOPER, S.
A Real Time Data Acquisition System by Satellite Relay,
W76-02035 9-05 7B

The Use of ERTS Imagery in Reservoir Management and Operation,
W76-08537 9-16 4A

OPE, O. B.
Some Chronic Effects of 2,4,-D on the Bluegill, (Lepomis Macrochirus),
W76-04923 9-10 5C

OPELAND, B. J.
Heat Influences in Estuarine Ecosystems,
W76-03489 9-07 5C

Impact of Water Supply and Wastewater on the Coastal and Marine Environments,
W76-11625 9-21 5D

Nekton Population Dynamics in the Albemarle Sound and Neuse River Estuaries,
W76-08037 9-15 5C

OPELAND, R. E.
Drainage Study: Hunter Brook, Sucker Brook, Coldspring Brook,
W76-07090 9-14 4A

OPPA-ZUCCARI, G.
Waste Water Treatment in Paint Works,
W76-07743 9-15 5D

OPPAGE, D. L.
River Pollution by Anticholinesterase Agents,
W76-08782 9-17 5C

OQUARD, M. A.
Liquid Separating Equipment,
W76-04614 9-10 5G

ORBAN, G. A.
Recycling of Waste in the Meat Industry,
W76-04088 9-09 5D

ORBEAU, A.
An Application of Discriminant Analysis to Determine the Demand for Industrial Flood Plain Location,
W76-03283 9-07 6F

ORBETT, E. S.
Effects of Management Practices on Water Quality and Quantity: Baltimore, Maryland, Municipal Watersheds,
W76-09464 9-18 4D

Effects of Management Practices on Water Quality and Quantity: Newark, New Jersey, Municipal Watersheds,
W76-09465 9-18 4D

Effects of Management Practices on Water Quality and Quantity: Penn State Experimental Watersheds,
W76-09463 9-18 4D

Forest Management Practices as Related to Nutrient Leaching and Water Quality,
W76-09471 9-18 4C

Municipal Watershed Management: What are the Opportunities,
W76-09472 9-18 4D

Summary of Municipal Watershed Management Surveys in Eastern United States,
W76-09466 9-18 4D

Watershed Response to Partial Area Applications of Simulated Rainfall,
W76-09467 9-18 2A

CORDEIRO, CARLOS ADAN
Bacterial and Coliform Counts in the Water Supply of Slaughter Houses Situated in the Vicinity of Salvador-Bahia: Brief Note, (In Portuguese),
W76-11525 9-21 5A

CORDELL, H. K.
Capacity of Water-Based Recreation Systems, Part III: Methodology and Findings,
W76-01804 9-04 6B

CORDES, E. H.
Water Management Model in Florida from ERTS-1 Data,
W76-00096 9-01 7B

COREY, F. C.
Irrigation System Management for Reducing Peak Electrical Demands,
W76-08549 9-16 3F

CORINO, E. R.
Method for Clarifying Oily Water Mixtures,
W76-09057 9-17 5G

CORKE, C. T.
Nitrate Nitrogen Distribution in Corn Land Following Applications of Digested Sewage Sludge,
W76-03814 9-08 5B

CORKETT, C. J.
Studies on the Effects of Temperature on Egg Laying of Three Species of Calanoid Copepods in the Laboratory (Acartia Tonsa, Temora Longicornis, Pseudocalanus Elongatus),
W76-01927 9-04 5C

CORKUM, D. A.
On a Thermal Lag in the North Atlantic Ocean During a Climatic Change,
W76-08127 9-16 2L

CORMONS, G.
Plastic Particles Found in Tern Pellets, on Coastal Beaches and at Factory Sites,
W76-11720 9-22 5B

CORNABY, B. W.
Resource Partitioning in Leaf-Litter Faunas from Hardwood and Hardwood-Converted-To-Pine Forests,
W76-10308 9-19 5B

Significance of Biological Nitrogen Fixation and Denitrification in a Deciduous Forest Ecosystem,
W76-10320 9-19 5B

CORNELIS, R.
Neutron Activation Analysis for Bulk and Trace Elements in Urine,
W76-02890 9-06 5A

CORNER, E. D. S.
Petroleum Compounds in the Marine Food Web: Short-Term Experiments on the Fate of Naphthalene in Calanus,
W76-11181 9-21 5C

CORNET, D.
Contribution to the Study of the Effect of Copper on Mytilus Edulis During Reproductive Period,
W76-03056 9-07 5C

CORNICK, J. W.
Red Crab (Geryon Quinquedens) and Snow Crab (Chionoecetes Opilio) Resistance to Infection by the Lobster Pathogen Aerococcus Viridans (Var.) Homari,
W76-10882 9-20 5C

CORNICK, T.
Community Response to the Flood Disaster Protection Act of 1973,
W76-06810 9-14 6F

CORNISH, A. H.
Microwave Sewage System With Distillation Means,
W76-00800 9-02 5D

Sewage Treatment System,
W76-09854 9-18 5D

CORNISH, T. G.
Needed: A Ground-Water Treaty Between the United States and Mexico,
W76-03918 9-08 4B

COROTIS, R. B.
A Stochastic Rainfall Model and Statistical Analysis of Hydrologic Factors,
W76-02928 9-06 2A

CORRAL, J.
Mercury Concentrations in Spring and Fall Zooplankton of the Estuary of the Arosa River, (In Spanish),
W76-08768 9-17 5C

CORRELL, D. L.
Phosphorus Cycling in a Maryland Deciduous Forest Subjected to Various Levels of Mineral-Nutrient Loading,
W76-10313 9-19 5B

Phosphorus Flux and Cycling in Estuaries,
W76-08689 9-16 5C

CORSON, S. R.
System Analysis of Refiner Mill Operation,
W76-05487 9-11 5D

CORTE-REAL, M.
The Use of Diatoms and Bacteria as Biological Indicators of Pollution in Streams, (In Portugese),
W76-12318 9-23 5A

CORTECCI, G.
Environmental Isotopic Study of the Barremian-Jurassic Aquifer in South Dobrogea (Roumania),
W76-00894 9-02 2F

CORY, R. L.
Macroscopic Benthic Fauna of Three Tidal Creeks Adjoining the Rhode River, Maryland,
W76-09143 9-17 5B

Water Quality in Rhode River at Smithsonian Institution Pier Near Annapolis, Maryland, April 1970 Through December 1973,
W76-03914 9-08 5A

COSBY, B. J.
A Method for Monitoring Eutrophication in Rivers,
W76-06803 9-14 5A

COSCIA, A. T.
Cationic Acrylamide-Styrene Copolymers and Flocculation of Sewage Therewith,
W76-09434 9-18 5D

COSENS, K. W.
Softening and Coagulation Sludge-Disposal for a Surface Water Supply,
W76-10252 9-19 5F

COSGROVE, E. G.
The Efficiency of Heavy Metal Removal by a Conventional Activated Sludge Treatment Plant,
W76-03306 9-07 5D

Metal Concentrations in the Sewage, Effluents, and Sludges of Some Southern Ontario Wastewater Treatment Plants,
W76-03343 9-07 5A

COSHAM, C. E.
DDT Residues in Cod Livers from the Maritime Provinces of Canada,
W76-07719 9-15 5C

COSMA, G.
Hydrosaline Regime of Some Soils in the Middle Part of the Calmatui River Basin. (In Rumanian),
W76-00573 9-02 2G

COSP, J.
A Very Rapid Liming and Tanning Process Without Effluent,
W76-08181 9-16 3E

COSSINS, G.
An Engineering Emergency: The 1974 Floods,
W76-05059 9-11 4A

COSTA, J. E.
Effects of Agriculture on Erosion and Sedimentation in the Piedmont Province, Maryland,
W76-01266 9-03 2J

COSTA, R. B.
Sprinkler,
W76-11830 9-22 3F

COSTA, S. L.
Anisotropic Sand Transport in Tidal Inlets,
W76-09955 9-18 2L

COSTELLO, E. J.
Solar Heating to Prevent Freezing in Recording Raingauges,
W76-03857 9-08 2B

COSTLOW, J. D. R.
Effects of Mirex, Methoxychlor and Malathion on Development of Crabs,
W76-10899 9-20 5C

COSTON, L. C.
Effects of Temperature, Copper and Chlorine on Fish During Simulated Entrainment in Power-Plant Condenser Cooling Systems,
W76-08878 9-17 5C

COTHREN, J. T.
Influence of Water Stress and Growth Regulator Applications on Sugar Composition of Soybean Leaves,
W76-06796 9-13 2I

COTTAM, G.
Harvesting as a Control for Aquatic Plants,
W76-03058 9-07 5G

COTTER, R. D.
Water Resources of Wisconsin-Upper Wisconsin River Basin,
W76-00094 9-01 7C

COTTERAL, J. A.
Upgrading Lagoon Effluent for Best Practicable Treatment,
W76-00240 9-01 5D

COTTON, B. Y.
Liquid Lifting and Storage Apparatus and Method,
W76-11840 9-22 3B

COTTON, J. E.
Availability of Ground Water in the Androscoggin River Basin, Northern New Hampshire,
W76-05862 9-12 7C

Availability of Ground Water in the Middle Connecticut River Basin, West-Central New Hampshire,
W76-13062 9-24 7C

Availability of Ground Water in the Pemigewasset and Winnipesaukee River Basins, Central New Hampshire,
W76-07589 9-15 7C

Availability of Ground Water in the Upper Connecticut River Basin, Northern New Hampshire,
W76-07114 9-14 7C

Ground-Water Levels on Boston Peninsula, Massachusetts,
W76-07119 9-14 7C

COTTON, R. A.
Evaluation of a Single-Step Bacterial Pollution Monitor,
W76-01758 9-04 5A

COTTON, W. R.
On th Variability of 'Dynamic Seedability' as a Function of Time and Location Over South Florida. Part II. Temporal Variability,
W76-01529 9-04 2B

COTTRELL, J. C.
Phosphorus Quota and the Chlorophyll: Carbon Ratio in Marine Phytoplankton,
W76-05461 9-11 5C

COTTRELL, W. R. T.
Flotation: Two Fresh Ways to Treat Effluents,
W76-12661 9-23 5D

COUCH, J. A.
An Enzootic Nuclear Polyhedrosis Virus of Pink Shrimp: Ultrastructure, Prevalence, and Enhancement,
W76-07695 9-15 5C

COUCH, R.
Response of Water-Hyacinth to Laser Radiation,
W76-12406 9-23 4A

COUFFIGNAL, J.
The Application of 'Biotic Indices' to the Study of Pollution in a River with Cyprinidae, (In French),
W76-11580 9-21 5A

COUGHLAN, J.
Environmental Effects of the Heated Discharges From Bradwell Nuclear Power Station, and of the Cooling Systems of Other Stations,
W76-08873 9-17 5C

COULMAN, G. A.
A Mathematical Model for Phosphorus Movement in Soils,
W76-03802 9-08 5B

Phosphorus Movement in Soils: Theoretical Aspects,
W76-05048 9-11 5B

COULON, C.
Environmental Studies of an Arctic Estuarine System,
W76-02075 9-05 2L

COULON, R.
Can the Criteria and Methodology Used for Radioactive Discharges be Applied to Thermal Discharges. (Les Criteres et La Methodologie Retenus Pour les Rejets Radioactifs Sont-Ils Transposables Aux Rejets Thermiques.),
W76-08887 9-17 5G

COULSON, J.
Lining of Storage Reservoirs and Lagoons--The Latest Techniques in Installation and Jointing,
W76-00632 9-02 8G

COULTER, K. R.
Cyanide Treatment in the Metal Finishing Industry,
W76-08271 9-16 5D

COUNTS, C. A.
Stabilization of Municipal Sewage Sludge by High Lime Dose,
W76-05081 9-11 5D

COURSON, C. M.
Upgrading Primary Treatment with Chemicals and Water Treatment Sludge,
W76-06286 9-13 5D

COURTENAY, W. R. JR.
Exotic Fishes in Fresh and Brackish Waters of Florida,
W76-07421 9-14 2

COUTANT, C. C.
Evaluation of Entrainment Effect,
W76-08629 9-16 8

Responses of Bass to Natural and Artificial Temperature Regimes,
W76-04848 9-10 5C

Temperature Selection By Fish--A Factor in Power-Plant Impact Assessments,
W76-08882 9-17 5C

Thermal Effects, (Literature Review),
W76-12703 9-24 5C

Thermal Effects, (Literature Review),
W76-12736 9-24 5C

COUTNEY, P.
Coastal Zone Management in Florida: The Need for a Comprehensive Program,
W76-12055 9-22 6E

COUTURE, R.
Influence of Heat from the Gentilly Nuclear Power Station on Water Temperature and Gastropoda, (Influence De L'Apport Thermique Originaire de la Centrale Nucleaire Gentilly Su

La Temperature De L'eau Et Sur Les Gasteropodes),
W76-08874 9-17 5C

OVANT, D.
'We've Found a Real Time-Saver',
W76-08251 9-16 8C

OVIL, D. M.
Overland Flow Pretreatment of Wastewater,
W76-11775 9-22 5D

OWAN, A. B.
Survival of Listeria Monocytogenes in Soil and Water,
W76-07423 9-14 5C

OWAN, P. A.
Naturally Occurring Organic Compounds and Algal Growth in a Eutrophic Lake,
W76-05253 9-11 5C

Nutrient Dynamics and Gas Production in Aquatic Ecosystems: The Effects and Utilization of Mercury and Nitrogen in Sediment-Water Microcosms,
W76-05246 9-11 5C

Sediment-Water Microcosms for Assessment of Nutrient Interactions in Aquatic Ecosystems,
W76-06707 9-13 5C

OWAN, W. C.
Investigation of Polymer-Impregnated Concrete Pipe,
W76-01489 9-03 8F

OWEN, W. F.
Nitrogen Availability in Urban Runoff,
W76-12596 9-23 5B

Phosphorus Availability in Particulate Materials Transported by Urban Runoff,
W76-08804 9-17 5B

OWGILL, U. M.
Differences in Chemical Composition Between Two Species of Daphnia and Some Freshwater Algae Cultured in the Laboratory,
W76-06713 9-13 5C

OWING, D. J.
Characteristics of Lakes, Ponds, and Reservoirs of New Hampshire, with a Bibliography,
W76-04978 9-10 2H

Limnological Data Report for the Maine Department of Environmental Protection--U.S. Geological Survey Cooperative Lake Studies Project,
W76-02492 9-05 7C

COWLEY, J. E.
Scaling and Sizing Criteria for Thermal-Hydraulic Models,
W76-10437 9-19 5B

COX, B. A.
An Experimental Oil Spill: The Distribution of Aromatic Hydrocarbons in the Water, Sediment, and Animal Tissues Within a Shrimp Pond,
W76-00149 9-01 5C

COX, C. H.
Sludge Dewatering,
W76-07434 9-14 5D

COX, D. K.
Effects of Three Heating Rates on the Critical Thermal Maximum of Bluegill,
W76-03473 9-07 5C

COX, G. V.
Environmental Site Assessment for a Massachusetts Bay Deepwater Oil Terminal,
W76-09380 9-17 5G

COX, L. M.
Snow: Nature's Reservoir,
W76-02412 9-05 2C

COX, T. L.
Accumulation and Mobility of Cesium in Roots of Tulip Poplar Seedlings,
W76-10297 9-19 5B

COX, W. E.
Legal Constraints on the Use of Wastewater for Food and Fiber,
W76-03562 9-08 6E

Legal Controls for Protecting Underground Sources of Drinking Water,
W76-03435 9-07 5F

Private Constraints on Ground-Water Contamination,
W76-03244 9-07 4B

Ultimate Disposal by Means of Deep Well Injection: A Legal View,
W76-03839 9-08 5E

Water Rights and Water Quality Management,
W76-01001 9-03 5G

COX, W. G.
Trace Metal Analysis by Atomic Emission Using a D.C. Argon Plasma,
W76-10651 9-20 5A

CRAFT, T. F.
The Use of Activable Tracers in the Evaluation of the Performance of Wastewater Treatment Plants,
W76-07003 9-14 5A

CRAGIN, J. H.
The Chemistry of 700 Years of Precipitation at Dye 3, Greenland,
W76-12181 9-23 5A

CRAGWALL, J. S. JR.
The National Stream Quality Accounting Network,
W76-11419 9-21 5A

CRAIG, G. S. JR.
Floodflow Characteristics at Bridge Site on Interstate Highway 80, The Green River Near Green River, Wyoming,
W76-07120 9-14 4C

CRAIG, J. B.
Membrane Processes for Water Treatment, Conclusion,
W76-00241 9-01 3A

CRAIG, P. C.
Movements and Growth of Arctic Grayling (Thymallus Arcticus) and Juvenile Arctic Char (Salvelinus Alpinus) in a Small Arctic Stream, Alaska,
W76-12756 9-24 5C

CRAINICEANU, E.
Bacterial Contents of Sewage from Large Hog Farms in Romania, (In France),
W76-02401 9-05 5A

CRAMER, C. O.
Properties of Solids and Liquids from Stacked Manure,
W76-07197 9-14 5A

Runoff Control Systems for Concrete Dairy Cattle Yards,
W76-01039 9-03 5B

CRAMER, F.
Equilibrium and Stability in Laboratory Models of Sewage Ponds and Polluted Rivers,
W76-00331 9-01 5C

CRAMER, R. A. JR.
Floatation Aerator for Aerating and Moving Water,
W76-01129 9-03 5D

CRAMER, S. P.
Heritable Resistance to Gas Bubble Disease in Fall Chinook Salmon, Oncorhynchus Tshawytscha,
W76-03785 9-08 5C

CRAMER, W. N.
Chlorination and Iodination of Poliovirus and F2,
W76-09196 9-17 5A

CRAMP, S.
The Effects of Pesticides on British Wildlife,
W76-02343 9-05 5C

CRANE, D. M.
Plan Formulation and Evaluation Studies--Recreation. Vol. II of V. Estimating Initial Reservoir Recreation Use,
W76-05611 9-12 6B

CRANE, J. D.
Raw Sewage Coagulation and Aerobic Sludge Digestion,
W76-12859 9-24 5D

Results of Ocean Diffusion and Biological Studies of the Hollywood, Florida, Ocean Outfall,
W76-11938 9-22 5B

CRANKSHAW,
Cooperation Helps Erie,
W76-08481 9-16 5D

CRAUN, G. F.
Epidemiology of Waterborne Disease in the United States 1971-1973,
W76-03426 9-07 5F

Outbreaks of Waterborne Disease in the United States, 1971-1972,
W76-06138 9-12 5C

Overview of Problems Associated with Inorganic Contaminants in Drinking Water,
W76-03429 9-07 5F

CRAVENS, J.
Acid Mine Rehabilitation Problems at High Elevations,
W76-02281 9-05 5B

CRAWFORD, D.
Influence of an Antibiotic on the Performance of Yearling Holstein Steers,
W76-04434 9-09 5C

CREBER, B.
Structural Model Studies for the Hendrik Verwoerd Dam,
W76-12523 9-23 8A

CREMEANS, J. E.
Pollution Abatement and Economic Growth: An Application of the Von Neumann Model of an Expanding Economy,
W76-02385 9-05 5G

CRETNEY, W. J.
The Alert Bay Oil Spill: A One-Year Study of the Recovery of a Contaminated Bay,
W76-11463 9-21 5C

Pelagic Tar in the North Pacific Ocean,
W76-11009 9-20 5A

CREVENSTEN, D.
Water Quality Model of the Lower Fox River, Wisconsin,
W76-11316 9-21 5B

CREW, H.
Dense Effluent Dispersion in a Stream,
W76-08316 9-16 5B

CREWS, R. C.
Effects of Propylene Oxide on Selected Species of Fishes,
W76-00322 9-01 5C

CRIDDLE, W. J.
A Rapid Method for the Simultaneous Determination of Paraquat and Diquat in Pond and River Waters by Pyrolysis and Gas Chromatography,
W76-10870 9-20 5A

CRISAFULLI, A. J.
Oil Skimmer Module with Free Floating Weir Trough,
W76-10482 9-19 5G

Oil Skimmer with Lead Float and Hinged Weir,
W76-04284 9-09 5G

CRISOSTOMO, L. A.
Phosphorus Sorption and Desorption in Calcareous Soils from Arizona,
W76-02677 9-06 2G

CRISP, D. J.
Tidally-Produced Internal Bands on the Shell of Elminius Modestus,
W76-10065 9-19 5A

CRISTOFANO, E. A.
Systems Simulation as a Tool for Water Resource Planning, Including Qualitative Aspects,
W76-12551 9-23 4A

CRITES, R. W.
Costs of Wastewater Treatment by Land Application,
W76-09774 9-18 5D

Design Seminar for Land Treatment of Municipal Wastewater Effluents. Design Factors, Part I,
W76-02185 9-05 5D

Irrigation With Wastewater at Bakersfield, California,
W76-03556 9-08 3C

Land Application Practices and Design Criteria,
W76-11233 9-21 5D

Land Treatment of Municipal Wastewater,
W76-11207 9-21 5D

Treatment of Municipal Wastewater by Land Application,
W76-00203 9-01 5E

CROCKER, T. D.
Cost-Benefit Analyses of Cost-Benefit Analysis,
W76-11164 9-21 6B

CROCKETT, A. S.
Development of Edinburgh's Sewage Disposal Scheme,
W76-09707 9-18 5D

CROCKETT, J. R.
Disposal of Cattle Feedlot Waste in an Anaerobic Lagoon on the Organic Soils of South Florida--Preliminary Results,
W76-10540 9-20 5E

CROFT, M. G.
Geology and Ground-Water Resources of Hettinger and Stark Counties, North Dakota,
W76-08043 9-15 4B

CROLEY, T. E.
The Water and Total Optimizations of Wet and Dry-Wet Cooling Towers for Electric Power Plants,
W76-07674 9-15 3E

CROLEY, T. E. II.
Efficient Sequential Optimization in Water Resources,
W76-01338 9-03 6A

Optimum Design of Dry-Wet Combination Cooling Towers for Power Plants,
W76-04805 9-10 5B

Physical and Economic Aspects Associated with Runoff from Urban Growth: A Methodological Approach,
W76-09749 9-18 4C

CROM, J. A.
Portland Adds Secondary Treatment,
W76-09013 9-17 5D

CROMACK, K.
Litter Production, Decomposition, and Nutrient Cycling in a Mixed Hardwood Watershed and a White Pine Watershed.
W76-10310 9-19 5B

CRONBERG, G.
Development and Ecology of Skuja in the Swedish Lake Trummen,
W76-01621 9-04 2H

CRONMILLER, R. E.
A Systems Analysis of a Continuous Water Quality Monitoring Project,
W76-01342 9-03 5A

CRONN, J. W. JR.
Hydrograph Responses to Watershed Model Size and Similitude Relations,
W76-00549 9-02 2A

CRONSTROM, A.
Southwestern Stockholm Regional Treatment System,
W76-00996 9-02 5D

CROOK, E. H.
Removal and Recovery of Phenols from Industrial Waste Effluents with Amberlite XAD Polymeric Adsorbents,
W76-12487 9-23 5D

CROOK, L. T.
Interdisciplinary Modeling of Limnological Aspects of the Great Lakes,
W76-00067 9-01 2H

Public Priorities for Great Lakes Research,
W76-01515 9-04 5G

CROOKS, GEOFFREY
The Washington Shoreline Management Act,
W76-06056 9-12 5G

CROOKS, J. W.
Deep Well Disposal of Wastewater,
W76-11617 9-21 5E

CROPSEY, M. G.
Disposal of Farm Animal Wastes Through the Soil,
W76-01384 9-03 5B

CROSBY, J. E.
An Average, Long-Period, Sea-Level Series for the United States,
W76-03188 9-07 2L

CROSBY, L. G.
Design of Entrance Channel Improvements for Ludington Harbor, Michigan; Hydraulic Model Investigation,
W76-07477 9-15 8B

Expansion of Port Hueneme, California; Hydraulic Model Investigation,
W76-07468 9-15 8B

CROSBY, O. A.
Magnitude and Frequency of Floods in Small Drainage Basins in North Dakota,
W76-04410 9-09 4A

CROSBY, S. C.
Sanitary Waste Treatment Plant,
W76-09414 9-18 5D

CROSS, D. G.
Chloramine-T for the Control of Ichthyophthirius Multifiliis (Fouquet),
W76-12143 9-22 5C

CROSS, F. A.
Distribution of Copper and Zinc in Oysters and Sediments from Three Coastal-Plain Estuaries,
W76-10279 9-19 5C

Plutonium in Atlantic Coastal Estuaries in the Southeastern United States of America,
W76-08600 9-16 5C

CROSS, J. H.
Schistosomiasis and Other Human Parasitoses of Lake Lindu in Central Sulawesi (Celebes), Indonesia,
W76-12573 9-23 5C

CROSS, R. A.
Evaluation of Anisotropic, Ionogenic Membranes (Diaflo UM-Series) for selective Removal of Divalent Cations and Anions from Brackish Water by Reverse Osmosis,
W76-03155 9-07 3A

CROSS, R. D.
Impact of Hurricane Tidal Surges on Subsequent Land Use Changes and Water Resources Reallocation,
W76-12461 9-23 4A

CROSSLEY, D. A.
Fallout Cesium-137 and Mineral-Element Distribution in Food Chains of Granitic-Outcrop Ecosystems,
W76-10307 9-19 5B

A Model of Mineral-Element Cycling for an Invertebrate Food Web in a Southeastern Hardwood Forest Litter Community,
W76-10272 9-19 5C

Resource Partitioning in Leaf-Litter Fauna from Hardwood and Hardwood-Converted-To-Pine Forests,
W76-10308 9-19 5B

ROSSON, L. S.
Affine Transformations from Aerial Photos to Computer Compatible Tapes,
W76-02055 9-05 7C

ROSSWHITE, W. M.
Economics of In-Plant Waste Management in Food Processing,
W76-08300 9-16 3E

Use, Continued Use, and Reuse of Both Process and Waste Waters in Poultry Processing Operations,
W76-08299 9-16 3E

Water and Waste Management in Poultry Processing,
W76-08428 9-16 3E

ROUCH, R. L.
Economic Framework for Groundwater Quality Monitoring,
W76-10657 9-20 5G

ROW, L. W.
WSSI Final Report for the Colorado River Basin Pilot Project,
W76-10818 9-20 3B

ROWDER, W. K.
Applications of ERTS-1 Imagery to Terrestrial and Marine Environmental Analyses in Alaska,
W76-02049 9-05 7B

Arctic and Subarctic Environmental Analyses Utilizing ERTS-1 Imagery,
W76-08510 9-16 2C

ROWLEY, W. P.
Cockeysville Quadrangle: Geology, Hydrology and Mineral Resources,
W76-04407 9-09 7C

Differentiation of Serpentinitic from Non-Serpentinitic Ultramafic Rocks in ERTS-1 MSS Imagery,
W76-09566 9-18 4A

RUFF, R. W.
Seepage Study of the Rocky Point Canal and the Grey Mountain-Pleasant Valley Canal Systems, Duchesne County, Utah,
W76-11682 9-22 4A

RUITT, J. R.
A Practical Data Management System for Monitoring and Managing Large Distributed Ecosystems,
W76-11608 9-21 5G

RUMP, J. R.
International Inventory and Forecast of Offshore Petroleum and Mineral Activity,
W76-03176 9-07 6B

RUMPTON, C. F.
Water Drainage from Highway Fills,
W76-11762 9-22 8D

RUNKILTON, R. L.
Impact of a Mainstream Impoundment on the Fish Fauna of Big Walnut Creek a Scioto River Tributary in Central Ohio,
W76-12465 9-23 6G

RUVER, J. E.
Waste-Treatment Applications of Reverse Osmosis,
W76-05294 9-11 5D

CRUX, R. B.
A Critical Study of the Application of Graphite-Furnace Non-Flame Atomic Absorption Spectrometry to the Determination of Trace Base Metals in Complex Heavy Matrix Sample Solutions,
W76-02885 9-06 5A

CRUZ, R. R.
Annual Water-Resources Review, White Sands Missile Range, 1975--A Basic-Data Report,
W76-07588 9-15 4B

CRUZREYES, A.
Discovery of Ligula Intestinalis (Goeze 1782) Gmelin, 1790 in Lermichthys Mutiradiatus (Meek) (Pisces: Goodeidae), (In Spanish),
W76-12274 9-23 5C

CRYER, R.
The Significance and Variation of Atmospheric Nutrient Inputs in a Small Catchment System,
W76-08728 9-16 5A

CSANADY, G. T.
Lateral Momentum Flux in Boundary Currents,
W76-03732 9-08 2H

Part 2. Diffusion and Dispersion,
W76-03107 9-07 5B

Topographic Waves in Lake Ontario,
W76-07068 9-14 2H

CSERMAK, B.
Goals and Forms of Co-operation Among Countries for the Development of International River Basins,
W76-05521 9-12 4A

CSONTOS, K.
Evaluating Tisza River Basin Development Plans Using Multiattribute Utility Theory,
W76-12534 9-23 4A

CSUKA, J.
Allowance for the Stochastic Character of Hydrological Data in Water Project Decisions,
W76-12439 9-23 7A

Simplified Decision Model for National Water Supply Development,
W76-12564 9-23 6A

CUENCA, R.
Preliminary Study of Experimental System for Ammonia Removal at South Lake Tahoe Advanced Wastewater Treatment Plant,
W76-07794 9-15 5D

CUHEL, R.
Primary Production and the Factors Controlling Phytoplankton Growth in the Antarctic Seas,
W76-08942 9-17 5C

CUHEL, R. L.
Vitamins in the South Polar Seas, I. Distribution and Significance of Dissolved and Particulate Vitamin B 12, Thiamine, and Biotin in the Southern Indian Ocean,
W76-08952 9-17 5C

CULBERSON, C. H.
Ionization of Water in Seawater,
W76-01239 9-03 1A

CULLER, R. C.
Quantitative Relationship Between Reflectance and Transpiration of Phreatophytes--Gila River Test Site,
W76-12802 9-24 2D

Relation of the Consumptive Use Coefficient to the Description of Vegetation,
W76-05843 9-12 2D

CULLEY, D. D. JR.
Raceways: Exotic Species Most Affected by Proposed E.P.A. Discharge Permits,
W76-03980 9-08 5G

CULLIMORE, D. R.
The in Vitro Sensitivity of Some Species of Chlorophyceae to a Selected Range of Herbicides,
W76-08824 9-17 5C

CULP, B. R.
Aqueous Complexation of Copper with Sewage and Naturally Occurring Organics,
W76-02570 9-06 5D

CULVER, R. H.
The Awakened Interest in the Sewer Ordinance,
W76-02199 9-05 5G

CUMBIE, P. M.
Mercury Levels in Georgia Otter, Mink, and Freshwater Fish,
W76-00878 9-02 5A

CUMMING, K. B.
Laboratory Efficacy of 3-Trifluoromethyl-4-Nitrophenol (TFM) as a Lampricide,
W76-08063 9-15 5C

CUMMING, R. B.
The Potential for Increased Mutagenic Risk to the Human Population Due to the Products of Water Chlorination,
W76-12887 9-24 5C

CUMMINGS, R. E.
Protecting Groundwater from Landfill Leachate,
W76-05599 9-12 5G

CUMMINGS, T. R.
Water Resources of Basins for Minor Streams Draining into St. Clair River, Lake St. Clair, Detroit River, and Lake Erie, Southeastern Michigan,
W76-05427 9-11 7C

CUMMINS, K. W.
The Relationship Between Watershed Use and Stream Water Quality,
W76-08282 9-16 4D

Structure and Function of Stream Ecosystems,
W76-12137 9-22 2I

CUMMINS, P. A.
Oil Tanker Pollution Control: Design Criteria vs Effective Liability Assessment,
W76-07812 9-15 5G

CUNDELL, A. M.
Hindgut Microflora from Oil-Polluted Soft-Shell Clams,
W76-11969 9-22 5C

Petroleum Degradation in Low Temperature Marine and Estuarine Environments,
W76-11924 9-22 5B

CUNDICK, R. P.
International Straits: The Right of Access,
W76-01965 9-04 6E

CUNGE, J. A.
Time-Dependent Mass Dispersion in Natural Streams,
W76-10436 9-19 5B

CUNNINGHAM, G. L.
Anomalous Diurnal Patterns of Stem Xylem Water Potentials in Larrea Tridentata,
W76-10172 9-19 2I

CUNNINGHAM, P. A.
Accumulation, Tissue Distribution and Elimination of 203HgCl2 and CH3203HgCl in the Tissues of the American Oyster, Crassostrea Virginiaca,
W76-04927 9-10 5C

Factors Affecting the Accumulation and Removal of Mercury from Tissues of the American Oyster Crassostrea Virginica,
W76-01924 9-04 5C

CUNNINGHAM, R. K.
Interim Report, Cooperative Grays Harbor Surveillance Program-1970,
W76-11894 9-22 5D

CUNNINGHAM, R. S.
Antitranspirants as a Possible Alternative to the Eradication of Saltcedar Thickets,
W76-04929 9-10 3B

CUNNINGHAM, T. D.
Fish Toxicity of S-Methyl Fenitrothion,
W76-00338 9-01 5C

CURDS, C. R.
A Theoretical Study of Factors Influencing the Microbial Population Dynamics of the Activated-Sludge Process-II. A Computer-Simulation Study to Compare Two Methods of Plant Operation,
W76-08277 9-16 5D

CURE, V.
The Improvement of the Ecological Conditions in Frasinet Pond--Intensely Overrun by Macrophytes After Having Stocked it with Grass Carp (Ctenopharyngodon Idella (Val)), (In German),
W76-07296 9-14 8I

CURNUTTE, B.
A Local-Structure Model for Calculation of Lattice Vibrations in Liquid Water,
W76-02512 9-06 1A

CURRAN, H. M.
Vertical Tube Distillation Desalting State-of-the-Art (1971),
W76-03154 9-07 3A

CURRAN, S. F. JR.
Land Disposal of Wastewater in the Commonwealth of Pennsylvania - A Regulatory View,
W76-11644 9-22 5D

CURRAN, T. P.
NEPA and a State's Role in Water Resources Management,
W76-09627 9-18 6E

CURRY, J. B.
Coanda Effect Oil-Water Separator,
W76-08209 9-16 5G

CURRY JR, L.
Relationship of Rational and Unit Graph Methods in Retention Basin Design,
W76-09732 9-18 4C

CURTIN, T. B.
Coastal Upwelling Experiment - I and II, Surface Hydrographic Fields Data Report,
W76-01496 9-03 2L

CURTIS, C. R.
Sodium and Chloride Concentrations in Native Vegetation Near Chalk Point, Maryland,
W76-04819 9-10 5B

CURTIS, D. J.
Intertidal Organisms of an Industrialized Estuary,
W76-11815 9-22 5C

CURTIS, E. H.
Effect of Wet-Air Oxidation on the Chemical Composition of Sewage Sludges,
W76-12462 9-23 5D

CURTIS, J.
Urban Runoff and Combined Sewer Overflow, (Literature Review),
W76-12627 9-23 5D

CURTIS, M.
Tar Ball Loadings on Golden Beach, Florida,
W76-10379 9-19 5B

CURTIS, W. R.
A Photographic Technique for Monitoring Erosion on Strip Mined Lands,
W76-02278 9-05 5A

CUSHMAN, R. L.
Evaluation of Yield and Water-Level Relations,
W76-04837 9-10 4D

CUTKOMP, L. K.
In Vitro Inhibition of Fish Brain Atpase Activity by Cyclodiene Insecticides and Related Compounds,
W76-00874 9-02 5C

CUTSHALL, N. H.
Chlorinated Pesticides and Polychlorinated Biphenyls in Marine Species, Oregon/Washington Coast, 1972,
W76-08359 9-16 5A

Cycling of Fe55 and Zn65 in Columbia River Carp Following Reactor Shutdown,
W76-09508 9-18 5C

CVANCARA, V. A.
Studies on the Tolerance of Young of the Year Mississippi River Fish to Heated Waters,
W76-01520 9-04 5C

CYR, J. W.
Infrared Dry Caustic Vs. Wet Caustic Peeling of White Potatoes,
W76-06652 9-13 5D

CYR, R.
Waste Water Treatment Plant,
W76-08977 9-17 5D

CZAIKA, S. C.
Crustacean Zooplankton of Southwestern Lake Ontario in 1972 During the International Field Year for the Great Lakes,
W76-11276 9-21 2H

CZAPIK, A.
Ciliate Associations (Ciliata) in the Pradnik Stream, Which is Polluted by Residual Waters of a Dairy, (In French),
W76-08777 9-17 5C

CZERNIEC, J.
Dissolved Oxygen Analyzer T-01 Analyzer. A Simple Apparatus for Electrochemical Determination of Dissolved Oxygen in Water (Tlenomierz T-01 uproszczony przyrzad elektrochemicznego oznaczania tleunu roxpuszczomego w roztworach wodnych),
W76-09688 9-18 5A

CZYRSKA, H.
Heavy Metal Toxicity and Synergism to Floa
ing Aquatic Weeds,
W76-08454 9-16 5

D'ALESSANDRO, P. L. JR.
Oil Spill Control, Part 1: Prevention,
W76-06977 9-14 5

D'ANGLEJAN, B.
Water Chemistry of the St. Lawrence Estuary
W76-09581 9-18 5

D'ARGE, R. C.
Environmental Policy Costs: Definition, Me
surement, and Conjecture,
W76-11159 9-21 5

D'ITRI, F.
Wastewater Renovation and Reuse:An Urge
Environmental Need,
W76-05777 9-12 5

D'ITRI, F. M.
Mercury Dynamics in a Warmwater Strea
Receiving Municipal Wastewater,
W76-05077 9-11 5

DABROWSKA, H.
An Attempt to Evaluate the State of Health
Fish from the Lyna and Walsza Rivers in Co
nection to their Pollution, (In Polish),
W76-13192 9-24 5

DABROWSKI, A.
Pilot Scale Studies on Purification of Phen
Waste Waters by the Electrochemical Metho
(Badania Modelowe Oczyszczania Scieko
Fenolowych Metoda Elektrochemiczna),
W76-04782 9-10 5

Studies of a Purification Model for Phenoli
Wastes by Electrochemical Method (Badan
Modelowe Oczyszczenia Sciekow Fenolowyc
Metoda Elektrochemiczna),
W76-05490 9-11 5

DACEY, M. F.
Stokes' Settling and Chemical Reactivity
Suspended Particles in Natural Waters,
W76-03878 9-08 2

DACIN, E.
Dewatering of Sludges Generated in the Trea
ment of Waste Waters Generated in Refineri
(Comportarea la deshidratare a namolurilo
provenite de la tratarea apelor reziduale di
rafinarii),
W76-07502 9-15 5

Purification of Waste Waters Contaminate
With Methanol (Epurarea Apelor Reziduale Im
purificate cu Metanol),
W76-02585 9-06 5

DACY, G. H.
Reverse Osmosis Plant Helps City Cope wit
Diminishing Groundwater Supply,
W76-05779 9-12 5

DADISMAN, Q.
The Battle of Lake Superior: Reserve Mining'
Big Sewer,
W76-12020 9-22 5

DAFFAU, C.
Apparatus for the Prevention of Scaling i
Desalination Apparatus,
W76-13154 9-24 3

AGAN, G.
A Dependent Domain Model of Capillary Hysteresis,
W76-00903 9-02 2G

Effects of Large Thermal Discharges on Ice-Covered Rivers,
W76-03139 9-07 5C

AGGETT, L. L.
River Point Directory for the Mississippi River-Gulf Coast Inland Waterways System,
W76-07458 9-15 2L

AGON, R. J.
Ozonation of Photographic Processing Wastes,
W76-01667 9-04 5D

AGUE, R. R.
Simulation of Lead Removal by Chemical Treatment,
W76-07041 9-14 5F

AHL, B. E.
Construction and Stabilization of Coastal Foredunes with Vegetation: Padre Island, Texas,
W76-11752 9-22 2L

AHL-MADSEN, K. I.
River and Estuary Modeling with the Siva System,
W76-09982 9-18 2A

AHLBERG, M. D.
Winter Fauna in a Thermal Discharge with Observations on a Macrobenthos Sampler,
W76-03488 9-07 5C

AHLING, D. R.
Effectiveness of Hypochlorous Acid and Hypochlorite Ion in Destruction of Viruses and Bacteria,
W76-00117 9-01 5F

AHLMAN, R. C.
Correlation of Radioactive Waste Treatment Costs and the Environmental Impact of Waste Effluents in the Nuclear Fuel Cycle for Use in Establishing as Low as Practicable Guides-Fabrication of Light-Water Reactor Fuels Containing Plutonium,
W76-12694 9-24 5C

Environmental Effects of Chromium and Zinc in Cooling-Water Drift,
W76-04822 9-10 5C

Radiocesium Cycling in Vegetation and Soil,
W76-10296 9-19 5B

AHLQVIST, K. I.
Phosphorus Reduction with Bivalent Iron Sulfate at the Kappala Water Purification Plant, (In Swedish)
W76-12989 9-24 5D

AHLSTROM, B.
Mesometeorological Studies of Precipitation,
W76-13186 9-24 2B

AHM, D. B.
Technology For Managing Spills On Land And Water,
W76-03595 9-08 5G

AIBER, F. C.
Light, Nitrogen, and Phosphorus Limitation of Edaphic Algae in a Delaware Salt Marsh,
W76-01149 9-03 5C

AIGNAULT, L. G.
Treatment of Photographic Ferrocyanide-Type Bleach Solutions for Reuse and Disposal,
W76-08472 9-16 5D

AIL, K. R.
Bacterial Flora of Saline Aquifers,
W76-01254 9-03 5A

AILEY, L. L.
Technique for Continulusly Analyzing the Concentration of Ozone Dissolved in Water,
W76-12405 9-23 5F

AIMON, Y.
A Systematic and Theoretical Study of Sewerage Remodelling Plans, I. River Turbidity Control and the Adjustment of Crosssections (Gesuido Seibi Keikaku ni Kansuru Shisutemu-ronteki Kenkyu I. Toku ni Kasen Odaku Seigyo to Men Seibi ni Tsuite),
W76-01055 9-03 5D

AL'YAN, I. B.
Subsurface Waters of Erosion Troughs in the Aktyuba Region of the Ural - A Source of Drinking Water Supply,
W76-10943 9-20 2F

ALE, A. C.
Animal Waste and Nitrate Movement Through Soil,
W76-12362 9-23 5B

A Total Recycle Unit System for Dairy Manure Management,
W76-07177 9-14 5D

A Waste Management System for a 150-Cow Dairy--A 10-Year Case Study,
W76-07174 9-14 5D

ALE, J. C.
Solid Waste, Sewage, and Energy - A Symbiotic Approach,
W76-11657 9-22 5D

ALE, R. H.
Probable Effects of Increasing Pumpage From the Schofield Ground-Water Body, Island of Oahu, Hawaii,
W76-11686 9-22 4B

ALEY, R. H.
Environmental Inventory and Assessment of Navigation Pools 24, 25, and 26, Upper Mississippi and Lower Illinois Rivers; A Vegetational Study,
W76-11748 9-22 6G

ALEY, R. J.
Experimental Characterization of Lacustrine Chlorophyll Diagenesis: II. Bacterial, Viral and Herbivore Grazing Effects,
W76-07431 9-14 5C

ALLAIRE, G.
The Floating Cover: Best Way to Cover a Finished-Water Reservoir.
W76-00624 9-02 5F

Will Industry Meet Water Quality Requirements,
W76-07736 9-15 5G

ALLMANN, C. H.
Industrial Application of Condensate Treatment and Ion-Exchange Techniques,
W76-04776 9-10 5D

ALLY, H. K.
Costs in Relation to Charges at UK Common-User Berths,
W76-06234 9-13 6C

ALPKE, H. L.
Effluent Discharge Law-Burdens and Consequences for the Paper Industry (Abwasserabgabengesetz-Belastungen und Folgerungen fuer die Papierindustrie),
W76-05712 9-12 5G

On the Effectivity of WASTE Water Bentonite for the Clarification of Paper Mill Effluents (Uber die Wirksamkeit von Abwaserbentonit zur Klarung von Papierfabriksabwassern),
W76-04220 9-09 5D

ALRYMPLE, R. A.
Beach Cusps Formed by Intersecting Waves,
W76-05163 9-11 2L

Computer Simulation of Beach Erosion and Profile Modification Due to Waves,
W76-10448 9-19 2L

Nearshore Water Circulation Induced by Wind and Waves,
W76-10433 9-19 2L

Wave-Induced Mass Transport in Water Waves,
W76-12844 9-24 2H

Waves of Maximum Height on Uniform Currents,
W76-03120 9-07 8B

ALRYMPLE, R. J.
Physical and Settling Characteristics of Particulates in Storm and Sanitary Wastewaters,
W76-00372 9-01 5D

ALSIN, G. J.
Water for Industrial and Agricultural Development in Coahoma, De Soto, Panola, Quitman, Tate, and Tunica Counties, Mississippi,
W76-12798 9-24 3E

ALV, E. F.
Automated Wet Sand Feeder for Open-Circuit Flumes,
W76-06936 9-14 8B

AMELIN, E.
Optimal Operation of the Pumping Stations in the Kinnereth-Eshkol Section of the National Water Carrier,
W76-09629 9-18 4A

AMIANO, D. J.
Philadelphia's Solid Wastes Strategy Stresses Private Sector Participation,
W76-06199 9-13 5E

AMIANOS, D.
The Influence of Flood Hazards Upon Residential Property Values,
W76-06643 9-13 6F

Land Prices in Flood Hazard Areas: Applying Methods of Land Value Analysis,
W76-11112 9-21 6F

AMIANOS, D. I.
Flood-Hazard Effects on Residential Property Values,
W76-12529 9-23 6G

AMIRJI, S. M.
Effect of Salinization on Certain Soil Microflora,
W76-06582 9-13 5C

DAMMAN, A. W. H.
Biotic Changes in the Willimantic/Shetucket River Associated with Improvements in Sewage Treatment,
W76-04388 9-09 5C

DAMRAU, D. L.
Environmental Inventory and Assessment of Navigation Pools 24, 25, and 26 Upper Mississippi and Lower Illinois Rivers; Floodplain Animals and Their Habitats,
W76-11747 9-22 6G

DAMSGAARD, A.
Numerical Simulation of Storm Surges in Bays,
W76-10457 9-19 2L

DAN, Y.
Continuous Treatment of Waste Water Containing Phenol by Candida Tropicalis (Candida tropicalis ni yoru fernoru ganyu haisui no zenroku shori),
W76-04199 9-09 5D

DANA, M. T.
Rain Scavenging of SO2 and Sulfate from Power Plant Plumes,
W76-02712 9-06 5A

DANCER, W. S.
Leaching Losses of Ammonium and Nitrate in the Reclamation of Sand Spoils in Cornwall,
W76-08760 9-17 3C

DANCY, W. B.
Process for the Clarification of Brine,
W76-01713 9-04 5D

DANDY, G. C.
Describing Variance with a Simple Water Quality Model and Hypothetical Sampling Programs,
W76-13162 9-24 5B

Sampling Network Design for Dispersion Verification,
W76-09961 9-18 5B

DANGEL, R. A.
Study of Corrosion Products in the Seattle Water Department Tolt Distribution System,
W76-02660 9-06 5A

DANIEL, J. F.
Estimating Groundwater Evapotranspiration from Streamflow Records,
W76-12285 9-23 2D

DANIEL, T. C.
Column Studies of Soil Clogging in a Slowly Permeable Soil as a Function of Effluent Quality,
W76-00721 9-02 5B

DANIELS, B. A.
The Biology of the Leech Myzobdella Lugubris Infesting Blue Crabs and Catfish,
W76-08932 9-17 5C

DANIELS, R. B.
Nitrogen Movement in a Shallow Aquifer System of the North Carolina Coastal Plain,
W76-04099 9-09 5B

Thick BH Horizons in the North Carolina Coastal Plain: I. Morphology and Relation to Texture and Soil Ground Water,
W76-06402 9-13 2G

Thick BH Horizons in the North Carolina Coastal Plain: II: Physical and Chemical Properties and Rates of Organic Additions from Surface Sources,
W76-06403 9-13 2G

DANIELS, S. L.
Ferric Chloride and Organic Polyelectrolytes for the Removal of Phosphorus,
W76-07059 9-14 5D

DANIELSON, T. W.
Map Showing Lakes in the Greater Denver Area Front Range Urban Corridor, Colorado,
W76-12795 9-24 7C

DARAVIN, I. A.
Influence of Oil on Nucleic Acids of Algae,
W76-11821 9-22 5C

DARDEN, R. B.
Jet Discharge into a Stratified Reservoir,
W76-00911 9-02 8B

DARDENNE-ANKRINGA, W. JR.
Oxidation Process for Improving the Environmental Quality of Water Containing Sulfur and/or Inorganic Sub-Six-Sulfur-Containing Impurities,
W76-13150 9-24 5D

DARGENT, M.
Simulation Model of the Quantitative and Qualitative Evolution of Water Resources at Different Points of a River-Basin (Orne),
W76-12555 9-23 4A

DARMER, K. I.
Hydrologic Data Network for the Oswego River Basin, New York,
W76-00654 9-02 7B

DARNIGE, M. L.
Dynamic Programming for Determination of a Storm Water Outlet System of Pipes and Flood-Damping Dams,
W76-12542 9-23 4A

DARR, P.
A Reconsideration of the 'Requirement Approach' to Residential Water Use Forecasting,
W76-04964 9-10 6D

Socioeconomic Factors Affecting Domestic Water Demand in Israel,
W76-04556 9-10 6D

DARROW, D. C.
Accumulation and Apparent Absence of DDT Metabolism by Marine Copepods, Calanus SPP. in Culture,
W76-03784 9-08 5C

DARROW, E. M.
Factors in the Elimination of the Immature Stages of Anopheles Quadrimaculatus Say in a Water Level Fluctuation Cycle,
W76-02430 9-05 5G

DART, M. C.
Treatment of Waste Waters From the Meat Industry,
W76-03093 9-07 5D

DARTEVELLE, Z.
Diffusion and Migration of Polluted Water Along the Belgian Beaches. New Experiment Involving Dumping of 100 kg Rhodamine B: Preliminary Conclusions, (In French),
W76-07207 9-14 5B

DAS, G.
Effects of Bisulfite on Metabolic Development in Synchronous Chlorella Pyrenoidosa,
W76-11187 9-21 5C

A Simplified Approach for the Analysis of Unsteady Flow to a Cavity Well,
W76-07561 9-15 2F

DAS, J.
Trace Metals and Pollution of the Belgian Coast and of the Schelt Estuary, (In French),
W76-12260 9-23 5A

DAS, N. G.
Limnoplankton of Some Inland Waters of Dacca City,
W76-09400 9-17 5C

DAS, P.
Distributed Parameter Identification of Groundwater Systems by Nonlinear Estimation,
W76-11957 9-22 2F

An Evaluation of Weather Modification Activities in the Texas High Plains,
W76-03104 9-07 3B

DASGUPTA, S.
Local Attitudes and Water Resources Development: A Canadian Case Study,
W76-11132 9-21 6B

DASSEN, B. H. N.
Process for Removing Heavy Metals from Solutions,
W76-05496 9-11 5D

DATTA, O. P.
Construction Planning of a Hydro Power Station,
W76-09616 9-18 8C

DATTA, R. M.
Effect of Late Sowing on Morphogenetic Development of Panicle in Rice (Oryza Sativa L.),
W76-08758 9-17 3F

DATTA ROY, P. K.
Rainfall and Floods in India During 1974 Southwest Monsoon Period,
W76-08732 9-16 2B

DAUB, R. R.
Preliminary Investigations of a Headwater Creek in Eastern Kentucky,
W76-11284 9-21 5C

DAUBA, T. A.
Relation Between Generation Time and Biomass of Phytoplankton, (In Russian),
W76-11577 9-21 5C

DAUBERT, A.
Heating of Estuarine and Coastal Waters by Nuclear Power Stations in France (Echauffement Des Eaux Par Des Centrales Nucleaires En Estuaire Et Bord De Mer En France),
W76-08859 9-17 5B

DAUBNER, I.
The Bacterial Composition, and the Metabolic Activity of Some Physiological Groups of Bacteria in Two Gravel Pit Lakes,
W76-06749 9-13 5C

DAUENHAUER, W. J.
System of Water Purification and Product Distribution,
W76-13151 9-24 5F

DAUGHERTY, L. A.
Geomorphology of a Glaciated First-order Valley in South Central New York,
W76-01469 9-03 2

Soil-Geomorphic Relationships in a First-Order Valley in Central New York,
W76-01855 9-04 2G

DAVANZO, A. C.
Sewerage System Monitoring and Remote Control,
W76-00691 9-02 5D

DAVAR, K. S.
Longitudinal Dispersion for Flow Over Rough Beds,
W76-10921 9-20 5B

DAVENPORT, R.
Coastal Zone Management: The Process of Program Development,
W76-05204 9-11 6B

DAVES, G. D. JR
Analysis of Pulp and Paper Mill Waste Waters by High-Resolution Ion-Exchange Chromatography,
W76-05709 9-12 5A

DAVEY, E. W.
Apparatus for the in Situ Concentration of Trace Metals from Seawater,
W76-06721 9-13 5A

DAVID, E. L.
Panel on Discipline Viewpoints and Positions: Socio-Economics,
W76-00062 9-01 6B

The Role of the Public in Decision-making,
W76-01357 9-03 6B

DAVID, L.
Evaluating Tisza River Basin Development Plans Using Multiattribute Utility Theory,
W76-12534 9-23 4A

Multi-Criterion Ranking of Alternative Long-Range Water Resource Systems,
W76-11139 9-21 6B

River Basin Development for Socio-Economic Growth,
W76-06429 9-13 4A

DAVID, M. H.
Statistical Study of Phosphorus Removal in Wisconsin,
W76-07146 9-14 5A

DAVID, M. L.
Economic Analysis of Effluent Guidelines: Fertilizer Industry,
W76-09777 9-18 5G

DAVIDSON, B.
Identification in Nonlinear, Distributed Parameter Water Quality Models,
W76-04940 9-10 5B

Treatment of Synthetic Urinous Wastewater Using Combined Reverse Osmosis, Immobilized Urease, and Ion Exchange Systems,
W76-10254 9-19 5D

DAVIDSON, B. E.
A Field Study on the Relationship of Temperature and Ice to Infiltration at a Spray Irrigation Facility,
W76-01810 9-04 2G

DAVIDSON, D. D.
Effect of Offshore Structures on Shoreline Evolution, Atlantic Generating Station,
W76-09388 9-17 5G

Reliability of Rubble-Mound Breakwater Stability Models,
W76-10461 9-19 8B

Shore Effect Model, Atlantic Generating Station; Hydraulic Model Investigation,
W76-07457 9-15 8B

Water Waves Generated by Landslides in Reservoirs,
W76-03382 9-07 2H

DAVIDSON, H.
Overwintering of Evergreens in Plastic Structures,
W76-06014 9-12 2I

DAVIDSON, H. J.
Water-Quality Records for Selected Reservoirs in Texas, 1972-73 Water Years,
W76-00086 9-01 7C

DAVIDSON, J. M.
Fluometuron and Water Content Distributions During Infiltration: Measured and Calculated,
W76-03123 9-07 5B

Simultaneous Transport of Water and Adsorbed Solutes Through Soil Under Transient Flow Conditions,
W76-00032 9-01 2G

DAVIDTZ, J. C.
Flocculation Process,
W76-11451 9-21 5D

DAVIES, A. G.
An Assessment of the Basis of Mercury Tolerance in Dunaliella Tertiolecta,
W76-11183 9-21 5C

DAVIES, B. R.
Some Ecological Aspects of the Cabora Bassa Dam,
W76-12945 9-24 6G

DAVIES, J. A.
Preliminary Energy Budget of Lake Ontario for the Period May Through November, 1972,
W76-11433 9-21 2H

DAVIES, P. A.
Some Exploratory Experiments with a New Type of Rotating, Differentially-Heated Fluid Annulus,
W76-04970 9-10 2B

DAVIES, P. H.
Acute and Chronic Toxicity of Lead to Rainbow Trout Salmo Gairdneri, in Hard and Soft Water,
W76-08781 9-17 5C

DAVIES, R. J.
Waste Treatment Plants,
W76-09427 9-18 5E

DAVIES, R. M.
Effects of Entrainment of Zooplankton at Three Mid-Atlantic Power Plants,
W76-02315 9-05 5C

Entrainment of Planktonic Organisms into Cooling Water Systems of Three Mid-Atlantic Thermal Power Plants,
W76-08635 9-16 5C

Entrainment of Zooplankton at Three Mid-Atlantic Power Plants,
W76-08639 9-16 5C

Zooplankton Entrainment,
W76-05876 9-12 5C

Zooplankton Entrainment at Three Mid-Atlantic Power Plants,
W76-01937 9-04 5C

DAVIES, T. T.
IFYGL Chemical Intercomparisons,
W76-11430 9-21 2H

DAVIS, A. L.
Sam: A Sewer System Model for Public Works Engineers,
W76-01463 9-03 5D

DAVIS, B. L.
Cloud Seeding to Enhance Summer Rainfall in the Northern Plains,
W76-06612 9-13 3B

DAVIS, C. C.
Man-Made Eutrophication in a Newfoundland (Canada) Harbour,
W76-03659 9-08 5C

DAVIS, D.
Economic Uncertainties in Water Resources Project Design,
W76-12514 9-23 6A

Mountainous Winter Precipitation: A Stochastic Event-Based Approach,
W76-09062 9-17 2B

Sizing Flood Control Reservoir Systems by Systems Analysis,
W76-08085 9-15 4A

Storm Drainage and Urban Region Flood Control Planning,
W76-08086 9-15 4A

DAVIS, D. A.
Automatic System Purifies Pre-Finish Effluent at 45 GPM,
W76-01679 9-04 5D

DAVIS, D. B.
Catalytic Filtering-Incinerating Process and Device for Waste Water,
W76-08400 9-16 5D

DAVIS, D. R.
Application of Bayesian Decision Theory in Well Field Design,
W76-04928 9-10 4B

Comment on 'Chance-Constrained Dynamic Programming and Optimization of Water Resource Systems' by Arthur J. Askew,
W76-04567 9-10 4A

Decision Analysis for Watershed Management Alternatives,
W76-06905 9-14 4D

A Deterministic Model for Semi-Arid Catchments,
W76-02235 9-05 2E

DAVIS, D. W.
Analysis of Structural and Nonstructural Flood Control Measures Using Computer Program HEC-5C,
W76-07564 9-15 4A

Optimal Sizing of Urban Flood-Control Systems,
W76-00554 9-02 4A

Optimal Sizing of Urban Flood Control Systems,
W76-08092 9-15 4A

DAVIS, E.
Optimizing Organic Carbon and Color Removal from a Board Mill Effluent,
W76-05724 9-12 5D

DAVIS, E. A.
Managing Chaparral for Water and Other Resources in Arizona,
W76-06597 9-13 3B

DAVIS, E. J.
Ships Waste Offload System Study. Phase I Report. Preliminary Concept Development and Economic Comparisons,
W76-04549 9-10 5D

DAVIS, G.
Monitoring Estuarine Circulation and Ocean Waste Dispersion Using an Integrated Satellite-Aircraft-Drogue Approach,
W76-10671 9-20 5A

DAVIS, G. A.
Economic Impacts of Implementing EPA Water Pollution Control Rules on the United States Beef Feeding Industry,
W76-07160 9-14 5G

DAVIS, G. J.
The Submersed Macrophytes of the Pamlico River Estuary, North Carolina,
W76-06809 9-14 5C

DAVIS, H. N.
Monograph for the Effectiveness and Cost of Water Treatment Processes for the Removal of Specific Contaminats, Volume II, KWIK Index,
W76-06350 9-13 5F

Monograph of the Effectiveness and Cost of Water Treatment Processes for Removal of Specific Contaminants. Vol. 1. Technical Manual,
W76-09227 9-17 5F

DAVIS, J.
Heavy Metal Content in the Sediments of the Southern Part of the Coeur D'Alene Lake,
W76-07394 9-14 2H

Heavy Metal Pollution in the Sediments of the Coeur D'Alene River Delta,
W76-04091 9-09 5A

DAVIS, J. P.
The Discharge Permit Program Under the Federal Water Pollution Control Act of 1972--Improvement of Water Quality Through the Regulation of Discharges from Industrial Facilities,
W76-04624 9-10 5G

DAVIS, K. B.
Salinity Effects on Plasma Electrolytes of Channel Catfish, Ictalurus Punctatus,
W76-08443 9-16 5C

DAVIS, K. R.
Approaches to Multiobjective Planning in Water Resource Projects,
W76-01335 9-03 6A

DAVIS, L. G.
A Technique for Estimating the Time of Travel of Water in Indiana Streams,
W76-09138 9-17 4A

DAVIS, L. H.
Cost of Producing Crops in the Irrigated Southwest, Part V: Utah,
W76-09063 9-17 3F

DAVIS, L. R.
Analysis of Multiple Cell Mechanical Draft Cooling Towers,
W76-12848 9-24 5C

DAVIS, M. E.
Surface Water Availability, Pickens County, Alabama,
W76-12280 9-23 4A

Water Availability of Monroe County, Alabama,
W76-12281 9-23 4A

DAVIS, M. S.
The Ports and Waterways Safety Act of 1972: An Expansion of the Federal Approach to Oil Pollution,
W76-03917 9-08 5G

DAVIS, N.
How to Drill Troublesome Shales,
W76-10108 9-19 8G

DAVIS, O. T.
Water Purification Apparatus and Timing Device for Initiating A Backwashing Cycle,
W76-05968 9-12 5F

DAVIS, R. A. JR.
Coastal Dynamics on Cedar Islands, Virginia,
W76-01325 9-03 2L

Simultaneous Process-Response Study on the East and West Coasts of Lake Michigan,
W76-01494 9-03 2J

DAVIS, R. B.
Sewage Treatment System,
W76-09854 9-18 5D

DAVIS, R. J.
Text and Commentary for Weather Modification Control Law,
W76-10809 9-20 3B

Weather Modification Law Developments,
W76-00923 9-02 2B

DAVIS, R. K.
New Strategies for Water Resource Planning and Management,
W76-01354 9-03 4A

Rookery Bay Land Use Studies, Environmental Planning Strategies for the Development of a Mangrove Shoreline, Study No. 10, Growth and Land Use, Study No. 11, Economic Implications of Land Development Alternatives, Study No. 12, A Simulation Modeling Approach to the Study of Development Alternatives,
W76-05009 9-11 5G

DAVIS, S.
Drain Envelope Response to Field Treatments,
W76-08548 9-16 4A

Soil Salinity Distribution in Sprinkler and Subsurface-Irrigated Citrus,
W76-01074 9-03 4B

DAVIS, T. A.
Disposal and Utilization of Waste Kiln Dust From Cement Industry,
W76-00686 9-02 5D

DAVIS, T. E.
One Pass Seawater Desalination Hollow Fine Fibers,
W76-03150 9-07 3A

DAVIS, W. J.
Watershed Management and Sediment Contro
in Montgomery County,
W76-09748 9-18 4I

DAVIS, W. P.
Environmental Protection Agency's Role, In
terests, and Responsibilities with Respect t
the Outer Continental Shelf Development,
W76-11479 9-21 6C

A Review of the Impact of Chlorinatio
Processes Upon Marine Ecosystems,
W76-12890 9-24 5C

DAVIS, W. R.
The Response of Larval Fish, Leiostomu
Xanthurus, to Environmental Stress Followin
Sublethal Cadmium Exposure,
W76-12732 9-24 5C

DAVISON, A. W.
Fluoride in Marine Animals,
W76-11593 9-21 5C

DAVITT, J.
Method of Storing Sludge Recovered from th
Hot Water Extraction of Bitumen from Ta
Sands,
W76-10474 9-19 5I

DAVLETGALIYEV, S. K.
On Applying the Principle of Maximum En
tropy to Hydrological Problems and Runof
Forecasting (O Primenenii Printsipa Maksimu
ma Entroppi v Zadachakh Girdologii i Prog
nozirovaniya Stoka),
W76-00804 9-02 4A

DAVYDOV, O. N.
DDT and its Metabolites in Some Cestodes i
Fishes, (In Russian),
W76-11550 9-21 5C

DAWDY, D. R.
Evaluation of Effects of Land-use Changes o
Streamflow,
W76-00657 9-02 4C

Proposed Revision to the Modified Einstei
Method of Computing Total Sedimen
Discharge,
W76-09842 9-18 2

Rainfall-Runoff Relation for Redwood Cree
Above Orick, California,
W76-03903 9-08 2A

DAWES, C. J.
On the Mariculture of the Florida Seaweed
Eucheuma Isiforme,
W76-01151 9-03 6I

DAWLEY, E. M.
Effects of Various Concentrations of Dissolve
Atmospheric Gas on Juvenile Chinook Salmo
and Steelhead Trout,
W76-03032 9-07 5C

DAWSON, F. H.
Notes on the Production of Stream Bryophyte
in the High Pyrenees (France),
W76-06129 9-12 2

DAWSON, J. P.
Steroids in Effluents,
W76-09696 9-18 5A

DAWSON, M. A.
Field Studies on Ozone Inactivation of a Gym
nodinium Breve Toxin,
W76-07099 9-14 5C

AWSON, P.
Assessment and Eradication of Heavy Metal Pollution in a Planned Urban Environment,
W76-08795 9-17 5C

Seabird Mortality in the North Irish Sea and Firth of Clyde Early in 1974,
W76-11727 9-22 5C

AWSON, R. N.
Microbiology of Two-Stage Kraft Waste Treatment,
W76-04766 9-10 5D

Northern Environmental Engineering - A Canadian Challenge,
W76-11655 9-22 5D

AWSON, V, K.
Laboratory Efficacy of 3-Trifluoromethyl-4-Nitrophenol (TFM) as a Lampricide,
W76-08063 9-15 5C

Method for Assessment of Toxicity or Efficacy of Mixtures of Chemicals,
W76-07718 9-15 5C

DAY, A. D.
Effect of Cultural Practices on Grain Yield and Yield Components in Irrigated Wheat,
W76-10176 9-19 3F

Effects of Treated Municipal Wastewater on Oat Forage and Grain,
W76-10119 9-19 5D

Influence of Treated Municipal Waste Water on Growth, Fiber, Acid-Soluble Nucleotides, Protein, and Amino Acid Content in Wheat Grain,
W76-03690 9-08 5E

DAY, D. E.
Use of Domestic Waste Glass for Urban Paving, Summary Report,
W76-02657 9-06 5E

DAY, D. L.
Aerobic Waste Treatment,
W76-11035 9-20 5D

Nutritive Value of Aerobically Treated Livestock and Municipal Wastes,
W76-03557 9-08 5D

Pollution-Control Techniques and Requirements,
W76-04420 9-09 5G

DAY, F. P.
Mineral Cycling Strategies of Two Deciduous and Two Evergreen Tree Species on a Southern Appalachian Watershed,
W76-10321 9-19 5C

DAY, H. J.
Benefit and Cost Analysis of Hydrological Forecasts,
W76-05823 9-12 6B

Flood Damage Reduction Potential of River Forecast,
W76-06435 9-13 6F

Flood Damage Reduction Potential of River Forecast Services in the Connecticut River Basin,
W76-12186 9-23 4A

DAY, J. B.
Exxon Uses Hands-On Methods to Train Drilling Personnel,
W76-10098 9-19 8G

DAY, J. C.
International Management of the Great Lakes-St. Lawrence Basin,
W76-11887 9-22 2H

International Management of the River Plate Basin,
W76-05756 9-12 4A

A Linear Programming Model for Use in Guiding Urban Floodplain Management,
W76-09849 9-18 6F

Urban Water Management of an International River: The Case of El Paso -Juarez,
W76-05661 9-12 3D

DAY, J. D.
Benefit-cost Analysis and Multiple-Purpose Reservoirs: A Reassessment of the Conservation Authorities' Branch Deer Creek Project, Ontario,
W76-01349 9-03 6B

DAY, J. H.
The Ecology of Morrumbene Estuary, Mozambique,
W76-06127 9-12 2L

DAY, M. C.
Increasing the Capacity of Sedimentation Tanks by Means of Sloping Plates,
W76-09706 9-18 5D

DAY, T. J.
Longitudinal Dispersion in Natural Channels,
W76-05160 9-11 5B

DAYRELL, M. D. S.
Phosphorus Deficiency in Cattle from the Brasilia Region of Brazil, (In Portugese),
W76-12322 9-23 5G

DAZAI, M.
Treatment of Waste Water Containing Mercurials by Activated Sludge. I. Mechanism of Removal of Mercurials in waste Water (Kassei odei ni yoru suigin ganyu haisui no shori ni kansuru kenkyu. I Kassei odei no suigin jokyo kiko),
W76-09017 9-17 5D

Treatment of Waste Water Containing Mercurials by Activated Sludge. 2. Mercury Volatilization and the Capacity of Activated Sludge for Waste Water Containing Mercurials (Kasseiodei ni yoru suigin ganyu haisui no shor ni kansuru kenkyu. 2),
W76-09018 9-17 5D

DAZAROLA, G.
Principle of a Technical Device for the Study of Toxic Effluents in Water Pollution, (In French),
W76-12255 9-23 5A

DE BACKER, L.
Physical Interpretation of the Diffusion Equation Parameters According to Markov's Stochastic Processes Theory,
W76-01851 9-04 2G

DE BERNARDI, R.
An Ecologic Survey of Lake Endine, (In Italian),
W76-08244 9-16 5C

DE BETHUNE, A. J.
Studies on Ionic Entropies of Transport,
W76-04668 9-10 1B

DE BOODT, M.
Comparative Study in Measuring Fluid Surface Tension and Fluid Content with the Aid of Electrical Resistance Elements 'In Situ' and in the Laboratory, (In Flemish),
W76-09923 9-18 2G

The Relationship Between Heat Conductance and the Moisture Content of the Soil, (In Dutch),
W76-08769 9-17 2G

DE COOK, K. J.
Geothermal Water Resources in Arizona: Feasibility Study,
W76-04005 9-09 4B

DE FRIETAS, C. R.
Estimation of the Disruptive Impact of Snowfalls in Urban Areas,
W76-01859 9-04 4C

DE HAAN, F. A. M.
Land Disposal of Potato Starch Processing Waste Water in the Netherlands,
W76-04748 9-10 5E

DE-HEER-AMISSAH, A. N.
Estimates of Evapotranspiration Rates at Guelph, Canada, by Penman and Thornthwaite Methods,
W76-07404 9-14 2D

Surface Energy Budget of Some Climatic Regimes in West Africa,
W76-06006 9-12 2B

DE JONCKHEERE, J.
The Effect of Thermal Pollution on the Distribution of Naegleri Fowleri,
W76-08930 9-17 5C

DE LA CRUZ, A. A.
Species Composition, Standing Stock, and Net Primary Production of a Salt Marsh Community in Mississippi,
W76-01164 9-03 2L

DE LA FUENTE, E.
Lime Use in Wastewater Treatment: Design and Cost Data,
W76-05868 9-12 5D

DE LONG, L. L.
A Plan for Study of Water and Its Relation to Economic Development in the Green River and Great Divide Basins in Wyoming,
W76-12805 9-24 6D

DE LOS SANTOS, G.
Contribution to the Taxonomy and Ecology of Fresh-Water Mollusks in Streams of Central Spain, (In Spanish),
W76-01288 9-03 2I

DE MAESENEER, J.
Zooplankton Populations in the 'Water-Sportbaan Georges Nachez' at Ghent in 1972, A Year of Continuous Waterblooming, (In Flemish),
W76-13196 9-24 5C

DE PENA, R. G.
Controlled Generation of Large Volumes of Atmospheric Clouds in a Ground-Based Environmental Chamber,
W76-02686 9-06 2B

DE, S. K.
Application of Infrared Spectroscopy to Erodibility Studies of the Soil,
W76-06140 9-12 2J

DE, S. M.
Some Aspects of Tannery Effluent Control,
W76-08175 9-16 5D

DE SABATO, A. A.
No Waiver of Sovereign Immunity 'Implied from States' Entrance into a Federally Regulated Area Unless There Exists an Express Private Right of Action Against the State,
W76-02095 9-05 6E

DE SWAAN, A. O.
Analytic Solutions for Determining Naturally Fractured Reservoir Properties by Well Testing,
W76-12449 9-23 8B

DE VILLARET, F.
Kinetic Modeling of Aeration Basins,
W76-01286 9-03 5D

DE VILLIERS, J. N.
Airborne Detection and Mapping of Oil Spills, Grand Bahamas, February 1973,
W76-01324 9-03 5A

DE VRIES, M.
Movable-Bed River-Models,
W76-09969 9-18 2E

DE VRIES, PENNING F. W. T.
Simulation of Nitrogen Distribution and Its Effect on Productivity in Even-Aged Loblolly Pine Plantations,
W76-10271 9-19 5B

DE WILDE, P. A. W. J.
Influence of Temperature on Behaviour, Energy Metabolism and Growth of Macoma Balthica (L.),
W76-10080 9-19 5C

DEA, S. J.
Aerobic Digestion and Evapotranspiration in Home Disposal Systems,
W76-00235 9-01 5D

System for Home Wastewater Treatment and Disposal,
W76-04616 9-10 5D

DEACON, J. E.
Distribution of Stream Pollution in Lake Water,
W76-10712 9-20 5B

DEALY, J. O.
Engineering and Cost Study of the Ferroalloy Industry,
W76-04547 9-10 5G

DEAN, G. W.
An Analysis of Water Resource Benefit Determination Methods with Special Reference to the Cosumnes River Division Project,
W76-05441 9-11 6B

DEAN, J. A.
Determination of Selenium in Natural Waters Using the Centrifugal Photometric Analyzer,
W76-06128 9-12 2K

DEAN, J. H.
Multiattribute Water Resources Decision Making,
W76-08079 9-15 6B

DEAN, J. M.
Effects of Acute Exposure to Sublethal Concentrations of Cadmium on the Thermal Resistance of the Mummichog,
W76-03465 9-07 5C

The Santee Swamp as a Nutrient Sink,
W76-10288 9-19 5C

DEAN, J. W.
Chronic Toxicity of Atrazine to Selected Aquatic Invertebrates and Fishes,
W76-10517 9-20 5C

Chronic Toxicity of Lindane to Selected Aquatic Invertebrates and Fishes,
W76-10895 9-20 5C

DEAN, R. B.
Estimating the Reliability of Advanced Waste Treatment,
W76-12904 9-24 5D

Estimating the Reliability of Advanced Waste Treatment - Part 2,
W76-12666 9-23 5D

The Meaning of Ultimate Disposal,
W76-03833 9-08 5E

The Meaning of Ultimate Disposal,
W76-07240 9-14 5E

DEAN, R. G.
Tide-Induced Mass Transport in Lagoons,
W76-06396 9-13 2L

Waves of Maximum Height on Uniform Currents,
W76-03120 9-07 8B

DEANE, F. D.
Regional Instream Flow Needs in the Pacific Northwest: An Analysis of Institutional, Legal, and Technological Aspects of Allocation Processes for Limited Streamflow,
W76-01797 9-04 6B

Relationships of Low, Average and Flood Flows for Streams in the Pacific Northwest,
W76-01507 9-04 2E

DEANER, D. G.
Laboratory Centrifuge Saves Time and Money,
W76-09704 9-18 5D

DEASON, W. O.
Dynamics of Marsh Land Formation and Succession Along the Lower Colorado River and Their Importance and Management Problems as Related to Wildlife in the Arid Southwest,
W76-06589 9-13 4A

DEB, A. K.
Optimization of Water Distribution Network Systems,
W76-11133 9-21 8B

DEBACKER, L.
Experimental Investigation of the Diffusivity Coefficient,
W76-04305 9-09 2G

DEBANNE, J. G.
Proposal for a Trans-Mediterranean Aqueduct,
W76-05660 9-12 4A

DEBANO, L. F.
Chaparral Soils,
W76-02282 9-05 2G

Fire in Vegetation Management: Its Effects on Soil,
W76-02284 9-05 4C

Forest Soil,
W76-02283 9-05 2G

DEBERTIN, D. L.
Rural Residential Water Demand in Kentucky: An Econometric and Simulation Analysis,
W76-05252 9-11 6I

DEBETHUNE, P.
Detection of Zinc in Champy-Maillet's Histological Stain by Electron Probe Analysis,
W76-02891 9-06 5A

DEBLEECKERE, L. R.
Alternative Problem: Communal or Individua Purification of the Wastewaters Generated by the Biological Industries in the Louvain Area (Problemmstelling Van Het Alternatief Gemeenschappelijke of Individuale Zuivering Van Het Afavlwater Van de Bio-Industrie Rond Leuven),
W76-03085 9-07 5I

DEBO, T. N.
Criteria for Selecting a Water Quality Model for 208 Planning,
W76-09212 9-17 5C

DEBOER, D. W.
Bi-Level Subsurface Drainage Theory,
W76-01847 9-04 2I

Field and Laboratory Evaluation of Bi-Level Drainage Theory,
W76-10934 9-20 4A

DEBOICE, J. N.
Chemical Treatment for Phosphate Control,
W76-03242 9-07 5I

DEBOUCHE, C.
Diffusivity of Water in A Non-Saturated Heterogeneous Environment, (In French),
W76-07290 9-14 2G

DEBUCHANANNE, G. D.
United States Geological Survey's Hydrogeological Research Programs and Plans Related to Disposal of Radioactive Waste into Geologic Formations,
W76-04411 9-09 5B

DEBYLE, N. V.
Effects of Lodgepole Pine Logging and Residue Disposal on Subsurface Water Chemistry,
W76-02279 9-05 5B

DECAMPS, H.
A Hydrodynamic Approach to the Microdistribution of Benthic Invertebrates in Running Water, (In French),
W76-07938 9-15 2I

DECARLO, V. J.
Environmental Levels of PCB'S,
W76-10641 9-20 5A

DECKER, C. S.
Acid Strip Mine Lake Recovery,
W76-07499 9-15 5G

DECKER, R. S.
Identification and Nature of Dispersive Soils,
W76-13170 9-24 8D

DECKER, W. L.
Determination of the Frequency of Precipitation in Excess of Design Criteria at More Than a Single Location During a Hydrologic Season,
W76-07581 9-15 2B

DECOOK, K. J.
Conflicts in Water Transfer from Irrigation to Municipal Use in Semiarid Environments,
W76-04932 9-10 6E

Continuation of the Arizona Water Information System (AWIS),
W76-12216 9-23 10D

Metropolitan Operated District for Sewage Effluent-Irrigation Water Exchange,
W76-02228 9-05 5D

Sources and Potential uses of Salvageable Waters in Arizona Urban Regions,
W76-11663 9-22 5D

United States-Mexico Water Agreements and Related Water use in Mexicali Valley: A Summary,
W76-02227 9-05 3C

Water Resource Alternatives for Power Generation in Arizona,
W76-02243 9-05 3E

DECOSTA, J.
The Crustacean Plankton of an Acid Reservoir,
W76-09109 9-17 5C

DECOURSEY, D. G.
A Dual-Interval, Light-Activated Signal Generator--Its Application to Sediment Sampling,
W76-00543 9-02 2J

Implications of Floodwater-Retarding Structures,
W76-04977 9-10 4A

DEDECKER, F. J.
Multi-Purpose Combined Sewer Overflow Treatment Facility, Mount Clemens, Michigan,
W76-01874 9-04 5D

DEDKOV, V. P.
Water Expenditure on Transpiration by Plants Communities Dominant in Eastern Kara Kum, (In Russian),
W76-10341 9-19 2D

DEDRICK, A. R.
Air Pressure Over Surfaces Exposed to Wind--II. Reservoirs,
W76-00287 9-01 2H

Water Harvesting: State of the Art,
W76-06584 9-13 3B

DEE, N.
Interdependence of Air, Water, and Soil Pollution Control Strategies in a Power Plant and a Kraft Mill,
W76-03297 9-07 5D

DEEMER, D. D.
Spray Irrigation of Polutry Processing Wastewater,
W76-08165 9-16 5D

DEETMAN, A. A.
Standardization of Methods for the Determination of Traces of Some Volatile Chlorinated Aliphatic Hydrocarbons in Air and Water by Gas Chromatography,
W76-09287 9-17 5A

DEFILIPPI, J. A.
A Matrix Approach for Determining Wastewater Management Impacts,
W76-11128 9-21 5G

DEFREITAS, A. S. W.
A Bioenergetics-Based Model for Pollutant Accumulation by Fish. Simulation of PCB and Methyl-Mercury Residue Levels in Ottawa River Yellow Perch (Perca Flavescens),
W76-12329 9-23 5C

DEGOBERT, P.
Device for Recovering Polluting Products Spread Over the Water Surface, In Particular Oil Products,
W76-02265 9-05 5G

DEGRAEVE, G. M.
Feeding Behavior and Temperature and Light Tolerance of Mysis Relicta in the Laboratory,
W76-08931 9-17 5C

DEGRASSE, F. L.
Operational Characteristics of the DECCA Lambda (6f) Positioning System Over Fresh Water,
W76-06662 9-13 7B

Operational Characteristics of the DECCA LAMBDA (6F) Positioning System Over Fresh Water,
W76-07091 9-14 2H

DEGREMONT, S. A.
Sludge Dewatering Process and Apparatus,
W76-02210 9-05 5D

DEGUIDA, R. N.
Sampling Network Design for Dispersion Verification,
W76-09961 9-18 5B

DEHAVEN, C. G.
Engineering and Economic Study of Reverse Osmosis Brackish Water Desalting Plants, Design of 1-5 MGD Plants, Plants for High Product Recovery,
W76-08118 9-16 3A

Engineering and Economic Study of Reverse Osmosis Brackish Water Desalting Plants, Design of 3-25 MGD Low Pressure Plants,
W76-08119 9-16 3A

Engineering and Economic Study of Reverse Osmosis Sea Water Desalting Plants, Design of 1-10 MGD Seawater Plants,
W76-08284 9-16 3A

DEININGER, R. A.
The Application of Mathematical Models and Optimization Techniques in Planning Water Supply and Waste Water Disposal Systems,
W76-12560 9-23 6A

A Comparison of Several Water Quality Indexes,
W76-10926 9-20 5A

Mathematical Optimization of Water Supply Systems State of The Art,
W76-03441 9-07 5F

DEIRMENDJIAN, D.
Far-Infrared and Submillimeter Wave Attenuation by Clouds and Rain,
W76-05164 9-11 2B

DEJOHN, P. B.
The Effectiveness of Granular Activated Carbon in Treating Municipal and Industrial Wastewaters,
W76-11264 9-21 5D

Factors to Consider when Selecting Granular Activated Carbon for Wastewater Treatment,
W76-01742 9-04 5D

Treatment of Dye Wastes With Granular Activated Carbon,
W76-05738 9-12 5D

Treatment of Dye Wastes with Granular Activated Carbon,
W76-08716 9-16 5D

DEJONG, E.
Carbon Dioxide Evolution from Virgin and Cultivated Soil as Affected by Management Practices and Climate,
W76-06003 9-12 2G

DEJONG, J. F.
Physical-Chemical Composition of Eroded Soil,
W76-13010 9-24 2J

DEKEI, A.
Treatment of Waste Waters from a Combined Sewer System (Egyesitett Rendszeru Csatornahalozat Szennyvizeinek Tisztitasa),
W76-01276 9-03 5D

DEKNATEL, C.
Impacts of Recreational Development: The Voyager Village Experience,
W76-12965 9-24 6B

DEKSBAKH, N. K.
Anthropogenic Effect on Continental, Marine, and Oceanic Biohydrocoenoses, (In Russian),
W76-09819 9-18 5C

DEL BALZO, D. R.
Horizontal Random Temperature Structure of the Ocean,
W76-10691 9-20 2L

DEL GRANDE, N. K.
Correlation of Dual-Channel Airborne IR Data with Soil Moisture Measurements,
W76-06660 9-13 2G

DELANEY, D. F.
Ground-Water Levels on Boston Peninsula, Massachusetts,
W76-07119 9-14 7C

DELARUE, R.
Design of a Stormwater Sewer by Nonlinear Programming--1,
W76-10034 9-19 5D

DELEON, C.
Materials Transportation Bureau: Transpiration of Natural and Other Gas by Pipeline,
W76-10756 9-20 5G

DELEUR, M. S.
Experiment in Applying Correlation Analysis to the Description of the Temporal Variations of Snow Melting Intensity in the Don River Basin,
W76-06173 9-13 2C

Mathematical Simulation of the Snow Melting Process for Computing Flood Hydrographs,
W76-04965 9-10 4A

DELFINE, J. J.
Comparative Effects of Two Modes of Cooling Water Discharge on Mississippi River Biota and Environmental Ecosystems,
W76-08888 9-17 5C

DELFINO, J. J.
Nitrates in Wisconsin Ground Water,
W76-03803 9-08 5B

DELHAYE, W.
Contribution to the Study of the Effect of Copper on Mytilus Edulis During Reproductive Period,
W76-03056 9-07 5C

DELICHATSIOS, M. A.
Physicochemical Wastewater Treatment Methods, (In Greek),
W76-12655 9-23 5D

DELL, C. I.
Cultural Impact on the Geochemistry of Sediments in Lake Erie,
W76-08727 9-16 2J

The Stratigraphy of Northern Lake Superior Late-Glacial and Postglacial Sediments.
W76-11289 9-21 2J

DELL'ISOLA, A. J.
Design Value In, Waste Out,
W76-03205 9-07 5D

DELLEUR, J. W.
Interactions Between Land Use and Urban Water Resources Planning,
W76-11130 9-21 4A

Methodology for the Selection and Application of Probability Models for the Simulation of Daily Rainfall and Runoff,
W76-12994 9-24 7A

Removal of Periodicities by Differencing and Monthly Mean Subtraction,
W76-02944 9-06 2A

Systematic Development of Methodologies in Planning Urban Water Resources for Medium Size Communities. Phase I. Final Report,
W76-11175 9-21 6B

DELOS, J. S.
Industrial Requirements for Effective Pollution Control. Automobile Industry,
W76-03498 9-07 5G

DELUCIA, R. J.
Application of Systems Analysis Models to the Problem of Conjunctive Use of Surface and Groundwater in the Vega of Granada,
W76-00818 9-02 4B

Describing Variance with a Simple Water Quality Model and Hypothetical Sampling Programs,
W76-13162 9-24 5B

DELVAUX, L.
Waste Water Treatment in the Beet-Sugar Industry,
W76-03092 9-07 5D

DELVE, M. H.
Reverse Osmosis Apparatus,
W76-04286 9-09 3A

DEMALSY, M. J.
Pre-Impoundment Site Preparation: A Study of the Effects of Topsoil Stripping on Reservoir Water Quality,
W76-09117 9-17 4C

DEMALSY, P.
Pre-Impoundment Site Preparation: A Study of the Effects of Topsoil Stripping on Reservoir Water Quality,
W76-09117 9-17 4C

DEMARD, H.
Analysis and Management of Water Distribution Systems,
W76-02718 9-06 4A

DEMARTY, M.
Water Transport Across Cation-Exchange Membrane. I. Experimental Technique. Influence of the Concentration and Temperature on the Water Transport Number,
W76-10620 9-20 3A

DEMATHIEU, P. G.
The Utilization of ERTS-1 Data for the Study of the French Atlantic Littoral,
W76-02046 9-05 7B

DEMAYO, A.
Naquadat Users Manual,
W76-04156 9-09 7C

DEMCHENKO, I. F.
Engineering Reclamation, A Most Important Means of Increasing Fish Productivity of Waters, (In Russian),
W76-09800 9-18 8I

DEMEULEMEESTER, P.
Standardization of Methods for the Determination of Traces of Some Volatile Chlorinated Aliphatic Hydrocarbons in Air and Water by Gas Chromatography,
W76-09287 9-17 5A

DEMIKHOVSKII, E. I.
Sanitary Significance of Some Discoveries in the Biology of Water Microflora, (In Russian),
W76-03964 9-08 5C

DEMINT, R. J.
TCA In Irrigation Water After Bank Treatments for Weed Control,
W76-00706 9-02 5B

DEMISSIE, M.
Experimental Studies of Wing-Wall Mixing Control,
W76-06814 9-14 5B

DEMONBRUM, J. R.
Chromate Abatement in the Y-12 Plant's New Hope Pond,
W76-04842 9-10 5G

DEMONT, D. J.
Fisheries Research,
W76-05878 9-12 5C

DEMPSEY, B. A.
Availability of Aluminum Phosphate from Alum-Treated Wastewater for Algal Growth,
W76-08842 9-17 5D

DEMPSEY, J. G.
Sewage Septic System for a Plurality of Drain Fields,
W76-09430 9-18 5D

DEMPSTER, G. R. JR.
Distribution of Radionuclides in the Columbia River Streambed, Hanford Reservation to Longview, Washington,
W76-00664 9-02 5B

DEN HARTOG, G.
Gamma--The Psychrometer Non-Constant,
W76-01473 9-03 2D

DEN HARTOG, J.
The Atmospheric Budgets Program of IFYGL,
W76-11436 9-21 2H

DENCE, C. W.
Phenolic and Chlorophenolic Oligomers in Chlorinated Pine Kraft Pulp and in Bleach Plant Effluents,
W76-12475 9-23 5D

DENEKE, F. J.
Subarctic Plant Communities and Associate Litter and Soil Profiles in the Caribou Cree Research Watershed, Interior Alaska,
W76-06194 9-13 4

DENG, C. B.
The Effect of Dursban Upon Fresh Wat Phytoplankton,
W76-08773 9-17 5

DENIKE, E. E.
Interagency Investigations of a Persistent O Spill on the Washington Coast. Animal Popul tion Studies, Hydrocarbon Uptake by Marin Organisms, and Algae Response Following th Grounding of the Troopship General M.C Meigs,
W76-09324 9-17 5

Long-Term Chemical and Biological Effects o a Persistent Oil Spill Following the Groundin of the General M. C. Meigs,
W76-00139 9-01 5

DENIS, E. E.
Map Showing Ground-Water Conditions in th Waterman Wash Area, Maricopa and Pin Counties, Arizona--1975,
W76-03399 9-07 7

Maps Showing Ground-Water Conditions in th Harquahala Plains Area, Maricopa and Yum Counties, Arizona--1975,
W76-12299 9-23 7

DENISON, P. J.
Assessment of the Effects of Waste Heat In puts on Water Budgets of the Great Lakes,
W76-11305 9-21 5

DENISON, P. S.
Water Supply and Wastewater Disposal Planning and Problems - In Coastal Areas,
W76-11225 9-21 5

DENIT, J. D.
Development Document for Effluent Limita tions Guidelines and New Source Performanc Standards - Feedlots Point Source Category,
W76-01208 9-03 5

Development Document for Effluent Limita tions Guidelines and New Source Performanc Standards for the Red Meat Processing Seg ments of the Meat Products and Renderin Processing Point Source Category,
W76-01206 9-03 5

Feedlot Effluent Limitations Based upon Ex emplary Operations,
W76-07163 9-14 5

DENN, M. M.
Short-Term Regulation of BOD Upsets in a Estuary,
W76-10020 9-19 5

DENNERT, H. G.
Further Observations on the Migration of Gam marus Zaddachisexton (Crustacea, Amphipoda in a French Stream,
W76-06046 9-12 2

Simulation Experiments on the Migration o Gammarus Zaddachi and Gammarus Chevreux i,
W76-12724 9-24 5

DENNETT, M. D.
Rainfall Trends in the West African Sahel,
W76-09269 9-17 2

DENNIS, A. S.
Cloud Seeding to Enhance Summer Rainfall in the Northern Plains,
W76-06612 9-13 3B

Determination of R-Z Relationships for Weather Radar Using Computer Optimization Techniques,
W76-06604 9-13 2B

Effects of Cloud Seeding on Summertime Precipitation in North Dakota,
W76-06603 9-13 3B

The Potential for Rainfall Increases from Convective Clouds in the Northern Plains,
W76-06607 9-13 3B

DENNIS, C. W.
The Hydraulic Characteristics of Plastic Land Drainage Pipe,
W76-01290 9-03 8G

DENNIS, L.
Report on Pilot Aquaculture System Using Domestic Wastewaters for Rearing Pacific Salmon Smolts,
W76-03553 9-08 5C

DENNIS, N. D. JR.
Anaerobic Filter Treatment of Pharmaceutical Waste,
W76-05275 9-11 5D

DENNISON, C. C.
Automatic Water Distiller,
W76-06469 9-13 5F

DENONCOURT, R. B.
A Preliminary Report on the Conewago Creek Faunal Survey, Lancaster County, Pennsylvania,
W76-05470 9-11 5C

DENONCOURT, R. F.
An Ichthyofaunal Survey and Discussion of Fish Species Diversity as an Indicator of Water Quality, Codorus Creek Drainage, York County, Pennsylvania,
W76-05634 9-12 5A

DENSMORE, J.
Controlling Barnyard Runoff,
W76-11049 9-20 5D

Phosphorus in the Rural Ecosystem--Runoff From Agricultural Land,
W76-01017 9-03 5B

DEPAGGI, S. J.
First Studies on the Zooplankton of the Lotic Waters of the Middle Parana River Basin, (In Spanish),
W76-12382 9-23 5C

DEPIETRO, C.
Abatement of Nitrobodies in Aqueous Effluents From TNT Production and Finishing Plants,
W76-02442 9-05 5D

DEPRATER, B. L.
Controlling Phenols in Refinery Waste Waters,
W76-07520 9-15 5D

DEPREE, D. O.
Buffered, Weak Ion-Exchange Water Demineralization Process,
W76-05526 9-12 3A

Solid Mineral and Regenerant Recovery for Ion-Exchange Resins,
W76-08199 9-16 3A

DERECKI, J. A.
Evaporation from Lake Erie,
W76-03415 9-07 2D

DERIBIZOVA, S. B.
Determination of the Dates of Snow Disappearance in the Forest,
W76-06174 9-13 2C

DERIKX, L.
Hydrology of Glacierized Basins--Summary of Research by Glaciology Subdivision,
W76-01247 9-03 2C

DERKICS, D.
Identification of Organic Compounds in Effluents from Industrial Sources,
W76-11598 9-21 5A

DEROUANE, A.
Automatic Determination of Sulfates by an Improved Nephelometric Method: Application to the Determination of SO2 in Atmospheric Air and of Sulfates in Rain Water, (In French),
W76-12259 9-23 5A

DEROUINEAU, R.
Water Softener,
W76-10475 9-19 5F

DERR, D. A.
Economic Considerations for Planning Sewage Sludge Disposal Systems,
W76-05083 9-11 5E

DERR, S. K.
Chronic Toxicity of Lindane to Selected Aquatic Invertebrates and Fishes,
W76-10895 9-20 5C

DERRIENNIC, F.
Application of Factorial Analysis of Principal Components to the Control of Pollution of Surface Waters,
W76-05632 9-12 5B

DERYSHEVA, E. K.
Removal of Oils from Waste Waters (Ochistka stochnykh vod ot masel),
W76-00124 9-01 5D

DERZHAVETS, A. Y.
Apparatus for Pumping Oil-Water Mixture from a Collection Vessel of a Floating Oil Collector into Settling Tanks,
W76-08403 9-16 5G

DESAI, C. S.
Free Surface Seepage Through Foundation and Berm of Cofferdams,
W76-04954 9-10 8D

Properties of Expansive Clay Soils; Report 2, A Numerical Procedure for Predicting Heave with Time,
W76-08420 9-16 8D

DESAI, H. C.
Volume and Strength of a Dolos,
W76-10523 9-20 8F

DESAIAH, D.
In Vitro Inhibition of Fish Brain Atpase Activity by Cyclodiene Insecticides and Related Compounds,
W76-00874 9-02 5C

DESCHACHT, W.
Diffusion and Migration of Polluted Water Along the Belgian Beaches. New Experiment Involving Dumping of 100 kg Rhodamine B: Preliminary Conclusions, (In French),
W76-07207 9-14 5B

DESCY, J. -P.
The Benthic Algal Vegetation of the Belgian Part of the River Meuse and Its Relations with Water Pollution, (In French),
W76-07291 9-14 5C

DESHIMARU,
Studies on a Purified Diet of Prawn: IV. Evaluation of Protein, Free Amino Acids and Their Mixture as Nitrogen Source, (In Japanese),
W76-12992 9-24 5C

DESHMUKH, S. B.
Effluent Treatment in Selected Organic Chemical Factories,
W76-08465 9-16 5D

DESHPANDE, W. M.
Toxicity Studies of Photo-Film Wastes,
W76-02386 9-05 5C

DESJARDINS, C. R.
Plan Formulation and Evaluation Studies--Recreation. Vol. II of V. Estimating Initial Reservoir Recreation Use,
W76-05611 9-12 6B

DESROSIERS, P.
Zero Discharge of Industrial Wastewaters,
W76-03834 9-08 5G

DETAR, W. R.
Graphic Determination of Sub-Main Pipe Size for Solid-Set Sprinkler Irrigation on Steep, Non-Uniform Slopes,
W76-08682 9-16 3F

DETCHEVA, R.
Pollution Influence on the Infusorial Fauna (Protozoa, Ciliata) of Bulgarian Rivers II. The Ogosta River and its Effluents,
W76-09714 9-18 5A

DETERING, S. G.
Planning an Input-Output Study for Water Resources Management in Nevada,
W76-02640 9-06 6A

DETHIER, B. E.
The Precipitation Chemistry of Western New York State: A Meteorological Interpretation,
W76-06815 9-14 2K

DETHLEFSEN, V.
Cadmium Uptake by Marine Fish Larvae,
W76-11184 9-21 5C

Combined Effects of Cadmium and Salinity on Development and Survival of Flounder Eggs,
W76-03768 9-08 5C

DETORRES, A. G.
Simultaneous Spectrophotometric Determination of Nickel and Cobalt in Mixtures with 3-Hydroxypicolinealdehyde Azine,
W76-09042 9-17 5A

DETTWILLER, J.
Possible Urban Effects on Maximum Daily Rainfall at Paris, St. Louis and Chicago,
W76-10929 9-20 4C

DEUEL, D. G.
A Fin Rot Disease of Marine and Euryhaline Fishes in the New York Bight,
W76-10524 9-20 5C

DEUTSCH, H. M.
The Effect on Brightness Stability of Pulp Constitution and Water Quality,
W76-04221 9-09 5D

DEUTSCH, M.
Generalized Geologic Framework of the National Reactor Testing Station, Idaho,
W76-01191 9-03 8E

DEUTSCH, S. L.
The National Environmental Policy Acts First Five Years,
W76-06490 9-13 6G

DEVAI, G.
On Hydrobiology: Critical Misapprehensions Concerning the Discipline, (In Hungarian),
W76-12269 9-23 2A

On the Methods of Determining the Sulfate Content of Water, and the Description of a New Photometric Method, (In Hungarian),
W76-12270 9-23 5A

Several Hydrobiological Problems of Ground Water Storage in Metropolitan Water Works (Budapest): I, (In German),
W76-12258 9-23 5F

DEVAI, I.
On the Methods of Determining the Sulfate Content of Water, and the Description of a New Photometric Method, (In Hungarian),
W76-12270 9-23 5A

Several Hydrobiological Problems of Ground Water Storage in Metropolitan Water Works (Budapest): I, (In German),
W76-12258 9-23 5F

DEVALE, D. P.
Method and Apparatus for Monitoring and Controlling Halogen Levels in a Water Treatment System,
W76-00576 9-02 5F

DEVARAJ, M.
Experiments on the Culture of the Large Snake-Head Ophicephalus Marulius (Hamilton),
W76-09487 9-18 8I

DEVILLIERS, J. N.
Airborne Detection and Mapping of Oil Spills, Grand Bahamas,
W76-09891 9-18 5A

DEVINE JR, J. C.
The Forked River Program: A Case Study in Saltwater Cooling,
W76-04827 9-10 5B

DEVRIES, J. J.
The Groundwater Outcrop-Erosion Model; Evolution of the Stream Network in the Netherlands,
W76-08515 9-16 2A

DEVRIES, R. N.
The Effects of Regional Development on the Illinois River Environment,
W76-01690 9-04 5B

DEWALLE, D. R.
Effect of Atmospheric Stability on Water Temperature Predictions for a Thermally Loaded Stream,
W76-11690 9-22 5B

DEWALLE, F. B.
Compilation of Methodology used for Measuring Pollution Parameters of Sanitary Landfill Leachate,
W76-05869 9-12 5A

Sanitary Landfill Leachates and Their Treatment,
W76-12930 9-24 5D

DEWEY, G. C.
Apparatus and Method for Making Snow with Uniform Drop Size,
W76-09051 9-17 7B

DEWITT, B.
Operational Ice Forecast for the Little Rapids Cut,
W76-06658 9-13 2C

DEWITT, F. A. JR.
Oil Spill and Oil Pollution Reports February 1975 - April 1975,
W76-01873 9-04 5G

Oil Spill and Oil Pollution Reports November 1974 - February 1975,
W76-01872 9-04 5G

Oil Spill and Oil Pollution Reports, November 1974 - February 1975,
W76-09896 9-18 5A

DEWITT, R. H.
Water Resources of the Inner Basin of San Francisco Volcano, Coconino County, Arizona,
W76-02237 9-05 4B

Water Resources of the Woody Mountain Well Field Area, Coconino County, Arizona,
W76-02748 9-06 4B

DEWLING, R. T.
EPA's Position on Ocean Disposal in the New York Bight,
W76-05084 9-11 5E

DEWOLF, P.
Mercury Content of Mussels from West European Coasts,
W76-11718 9-22 5B

DEWSNUP, R. L.
Problems Under State Water Laws: Initiation of New Rights,
W76-04335 9-09 6E

DEY-HAZRA, A.
The Destruction of Parasitic Resistant Stages in Sludge by Irradiation with Low Accelerating Voltage Electrons (Die Vernichtung Parasitaerer Dauerformen im Klaerschlamm Durch Bestrahlung mit Niederenergetischen Elektronen),
W76-03346 9-07 5D

DEY, N. N.
Radioruthenium in Coastal Waters,
W76-08619 9-16 5A

DHABADGAONKAR, S. M.
Measurement of Power Input in Flocculation,
W76-00608 9-02 5F

DHAR, O. N.
A Study of Extreme Point Rainfall over Flash Flood Prone Regions of the Himalayan Foothills of North India,
W76-00299 9-01 2B

A Study of Major Rain Storms Over and Near Mahi Basin up to Kadana Dam Site for the Evaluation of Probable Maximum Design Storm,
W76-08069 9-15 2B

Trend Analysis of Annual Indian Rainfall,
W76-05691 9-12 2B

DHARMADHIKARI, V. K.
Solving Discrete-Variable Multiple-Constrai
Non Linear Programs: The Decision Sta
Method, (Vol. 3),
W76-10606 9-20 6

DHEKANE, N. Y.
Treatment and Disposal of Wastewater fro
Onion Dehydration Factory at Satpur, Nasik,
W76-07533 9-15 5

DHIR, R. P.
Use of Saline Water in Agriculture. I. Descri
tion of the System,
W76-10168 9-19 1

DI DELUPIS, G.
Pollution in the Effluents of Bracciano Lal
and in Arrone Stream, on the Basis of the Di
tribution of Simuliidae, Chironomidae, Cu
cidae and Other Diptera, (In Italian),
W76-11570 9-21 5

DI GREGORIO, D.
Aeration Method and Apparatus,
W76-00592 9-02 5

DI PERNA, J.
Ship Ballast, Oil and Water Separation Systen
W76-11827 9-22 5

DI SALVO, L. H.
Identification and Potential Biological Effec
of the Major Components in the Seawater E
tract of a Bunker Fuel,
W76-03781 9-08 5

DI TORO, D. M.
A Food Chain Model of Cadmium in Weste
Lake Erie,
W76-03310 9-07 5

Statistical Design of Equalization Basins,
W76-06297 9-13 5

DIACONU, C.
A Mathematical Model for Flood-Wa
Forecasting by Means of Warning Basins,
W76-12829 9-24 4

DIADOWSKI, J.
The Clarification Plant of the Chemical Con
plex of the Town Jambol (Die Abwasse
reinigungsanlage der Chemiekombinats d
stadt jambol),
W76-02310 9-05 5

DIALESIO, J.
Modifications Improve Chlorine Conta
Chamber Performance, Part I,
W76-03231 9-07 5

Modifications Improve Chlorine Conta
Chamber Performance, Part II,
W76-07056 9-14 5

DIAMOND, S.
Soil Stabilization for Erosion Control,
W76-06639 9-13 4

Stabilization of Clay Soils Against Erosio
Loss,
W76-06640 9-13 4

DIANA, E.
On the Calculation of the Mean Residenc
Time in Monomictic Lakes,
W76-10704 9-20 2

DIAS, J. P.
Evaluation of the Aquifer Characteristics of th
Basaltic Terrain of Maharashtra in India,
W76-02970 9-06 2

IAZ, B.
Sewer Pest Control Check Valve,
W76-10199 9-19 8C

IAZ, R. J.
Effects of Brief Temperature Increases on Larvae of Mulinia Lateralis (Mollusca:Bivalvia),
W76-03041 9-07 5C

ICK, H. D.
Waste Management System,
W76-05063 9-11 5E

ICK, I. R.
A Water Conductivity Recorder,
W76-03453 9-07 5A

ICK, R. C.
The Depth VS. Depth Plot: an Aid to Selecting Piezometer Installation Depths in Boreholes,
W76-12447 9-23 8B

ICK, R. I.
Folklore in the Design of Final Settling Tanks,
W76-11202 9-21 5D

Sludge Handling and Disposal--State of the Art,
W76-03842 9-08 5E

Sludge Treatment, Utilization, and Disposal, (Literature Review),
W76-12630 9-23 5D

ICK, T. M.
Exchange Flow Between Lake Ontario and Hamilton Harbour,
W76-10496 9-19 5B

DICKENS, W. L.
Planting Pattern, Plant Population, Irrigation, and Insect Interactions in Cotton.
W76-09998 9-18 3F

DICKERSON, B. P.
Stormflows and Erosion After Tree-Length Skidding on Coastal Plain Soils,
W76-03756 9-08 4C

DICKERSON, J. D.
Soil Detachment From Clods by Simulated Rain and Hail,
W76-00030 9-01 2J

Techniques for Improving Tree Survival and Growth in Semiarid Areas,
W76-10175 9-19 2I

DICKEY, E. C.
Water Quality and Management Characteristics of Feedlot Runoff Holding Ponds,
W76-10545 9-20 5D

DICKEY, E. E.
Color Characterization of Kraft Linerboard Decker Effluent,
W76-12472 9-23 5A

DICKINSON, J. K.
Residue-Removal Methods for Pesticides and Industrial Chemicals Found in Aquatic Environments,
W76-05249 9-11 5A

DICKMAN, M.
Changes in Phytoplankton Following Nitrate Phosphate Additions to Large Enclosures in Marion Lake, British Columbia,
W76-11283 9-21 5C

DICKSON, F. H.
Sublacustrine Fan Morphology in Lake Superior,
W76-13079 9-24 5B

DICKSON, K. L.
Body Temperature Change of Bluegill Sunfish Subjected to Thermal Shock,
W76-00865 9-02 5C

A Field Evaluation of the Effects of Heated Discharges on Fish Distribution,
W76-08088 9-15 5C

Laboratory and Field Temperature Preference and Avoidance Data of Fish Related to the Establishment of Standards,
W76-07494 9-15 5C

Problems in Performing Environmental Assessments,
W76-07217 9-14 6G

Summer Distribution of Fish Species in the Vicinity of a Thermal Discharge New River, Virginia,
W76-12717 9-24 5C

Temperatures Selected and Avoided by Fish at Various Acclimation Temperatures,
W76-10885 9-20 5C

DICKSON, L. L.
Heavy Collars Aid Hole Control,
W76-10102 9-19 8G

DIDYCZ, W.
Apparatus for and a Method of Purifying Waste Fluid,
W76-02262 9-05 5D

DIDYCZ, W. J.
Apparatus for and a Method of Purifying Waste Fluid,
W76-03070 9-07 5D

Method of Purifying Waste Fluid,
W76-04197 9-09 5D

DIEDERICHSEN, J.
Ignition and Combustion in Situ of Oil from Wrecked Oil Tankers: Small Scale Burning Tests Carried Out at the RPE,
W76-04312 9-09 5G

DIEHL, D. S.
How Many Sewer Leaks Can You Afford.
W76-09404 9-18 8G

DIEHL, J. F.
The Effect of Preparation on the Mercury Content of Fish and Mushrooms, (In German),
W76-11546 9-21 5A

DIERCKING, R.
Preparation of Algae for the Gas Chromatographic Determination of Lindane, (In German),
W76-07979 9-15 5A

DIERCKS, P. W.
Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Smelting and Slag Processing Segments of the Ferroalloy Manufacturing Point Source Category,.
W76-01210 9-03 5G

DIEREN, W.
'Ware the Wadden Sea,
W76-10985 9-20 6G

DIESCH, S. L.
Survival of Pathogens in Animal Manure Disposal,
W76-02765 9-06 5C

DIETLICHER, K.
The Water Quality of the Lakes of Zurich and 'Walensee',
W76-04702 9-10 5C

DIETRICH, K. R.
Combination of Physical Chemical Processes of Waste Water Purification with Ozone Treatment (Kombination Physi-Kalisch-Chemischer Verfahren Der Abwasserreiningung Mit Ozon-Behandlung),
W76-09156 9-17 5D

DIETZ, D. F.
Compelled Self-Disclosure and Civil Penalties: The Limits of Corporate Immunity in Oil Spill Cases,
W76-05186 9-11 5G

DIETZ, R. A.
Ecological Base-Line Study of the Fish of the Anclote Anchorage,
W76-02019 9-05 5C

DIGGIA, S.
Separation and/or Concentration of Phenolic Materials from Dilute Aqueous Solutions,
W76-04785 9-10 5D

DIGGS, R. E.
Combination Irrigation and Temperature Control System for Plants,
W76-02602 9-06 3F

DIGIANO, F. A.
Computerized Monthly Reports, Cost-Effective Alternative,
W76-06300 9-13 7C

Wastewater Treatment - Physical and Chemical Methods, (Literature Review),
W76-12629 9-23 5D

DIK, E. A.
Hygienic Problems of the Design, Construction and Operation of Group Water Supply Systems, (In Russian),
W76-02477 9-05 5B

Sanitary Characterization of the Sergeevka Reservoir, (In Russian),
W76-02446 9-05 5C

DILAJ, M.
Stop Leachate Problems,
W76-03525 9-08 5B

DILLON, G. S.
Scope of Tidal Power from Indian Estuaries,
W76-09639 9-18 2L

DILLS, S. W.
Legal Institutions for the Allocation of Water and Their Impact on Coal Conversion Operations in Kentucky,
W76-11489 9-21 6E

DIMITRIADIS, D.
Application of Ion Exchange Methods for the Determination of Trace Elements in Natural Waters-III: Thorium, (In German),
W76-07410 9-14 2K

The Use of Ion Exchange Methods for the Determination of Trace Elements in Natural Waters-I: Cobalt, (In German),
W76-07408 9-14 2K

The Use of Ion Exchange Methods for the Determination of Trace Elements in Natural Waters-II: Cadmium, (In German),
W76-07409 9-14 2K

DIMITROVICI, F.
Territory, Industrial Plants, Water Supply, and Waste Water Plants--Partners in Joint Investments (Territorium, Industriebetrieb und Veb Wab--Partner Gemeinsamer Investitionen),
W76-07669 9-15 5D

DINELLI, G.
A Site Study of the Multiple Effects of Thermal Releases on the Aquatic Life in an Estuarine Area,
W76-09505 9-18 5C

DINER, N.
Measurement of Hydraulic Conductivity and Diffusivity for Predicting the Process of Soil Water Infiltration from a Trickle Source,
W76-04700 9-10 2G

DINGES, R.
The Availability of Daphnia for Water Qyality Improvement and as an Animal Food Source,
W76-03552 9-08 5D

DINGES, W. R.
Who Says Sewage Treatment Plants Have to be Ugly,
W76-09437 9-18 5D

DINIZ, E. V.
Changes in the Sedimentation Characteristics of an Urbanizing Watershed, Dallas and Collin Counties, Texas,
W76-09745 9-18 4C

DINSMORE, A. F.
Numerical Simulation of Storm Surges in Bays,
W76-10457 9-19 2L

DINWIDDIE, D. E.
An Investigation of Three Methods for the Determination of Sub-micromolar ion Concentrations in Water,
W76-11331 9-21 5A

DION, N. P.
Evaluation of Ground-Water Contamination from Cleaning Explosive-Projectile Casings at the Bangor Annex, Kitsap County, Washington, Phase II,
W76-08048 9-15 5B

Reconnaissance Data on Lakes in Washington--Volume 1. Clallam, Island, Jefferson, San Juan, Skagit, and Whatcom Counties,
W76-07592 9-15 2H

Reconnaissance Data on Lakes in Washington--Volume 2. King and Snohomish Counties,
W76-07591 9-15 2H

Reconnaissance Data on Lakes in Washington--Volume 3. Kitsap, Mason, and Pierce Counties,
W76-08565 9-16 2H

Reconnaissance Data on Lakes in Washington--Volume 4. Clark, Cowlitz, Grays Harbor, Lewis, Pacific, Skamania, and Thurston Counties,
W76-08566 9-16 2H

Reconnaissance Data on Lakes in Washington--Volume 5. Chelan, Ferry, Kittitas, Klickitat, Okanogan, and Yakima Counties,
W76-08567 9-16 2H

Reconnaissance Data on Lakes in Washington--Volume 6. Adams, Benton, Douglas, Franklin, Grant, Lincoln, Walla Walla, and Whitman Counties,
W76-10138 9-19 7C

Reconnaissance Data on Lakes in Washington--Volume 7. Pend Oreille, Spokane, and Stevens Counties,
W76-10139 9-19 7C

DIOP, S.
Studies on the Activity of a Sodium Hypochlorite Solution on Vibrio Cholerae Biotype et tor for Drinking Water Sterilization,
W76-01465 9-03 5D

DIOSADY, P. L.
Source Identification of Fuel Oil Spills,
W76-11314 9-21 5A

DIRKSEN, C.
Field Test of Soil Water Flux Meters,
W76-00838 9-02 2G

DISALVO, L. H.
Determination of Hydrocarbons in Marine Organisms and Sediments by Thin Layer Chromatography,
W76-10407 9-19 5A

Identification and Potential Biological Effects of the Major Components in the Seawater Extract of a Bunker Fuel,
W76-11099 9-20 5A

DISQUE, K.
Apparatus for Separating Low-Density Liquid from a Relatively More Dense Liquid Substantially Immiscible Therewith,
W76-06473 9-13 5G

DISSMEYER, G. E.
Summary of Municipal Watershed Management Surveys in Eastern United States,
W76-09466 9-18 4D

DISTEFANO, N.
An Identification Approach to Subsurface Hydrological Systems,
W76-05688 9-12 2F

DITMARS, J. D.
Mixing and Transport, (Literature Review),
W76-12672 9-23 5B

Particle-Laden Jets with Application to Ocean Dumping,
W76-09959 9-18 5B

DITORO, D. M.
Modeling of Phytoplankton in Lake Ontario,
W76-11286 9-21 5C

Vertical Interactions in Phytoplankton Populations - An Asymptotic Eigenvalue Analysis,
W76-11277 9-21 2H

DITTENHOEFER, A. C.
The Precipitation Chemistry of Western New York State: A Meteorological Interpretation,
W76-06815 9-14 2K

DITTON, R. B.
A Cluster Analysis of Activity, Frequency, and Environment Variables to Identify Water-Based Recreation Types,
W76-12955 9-24 6B

Environmental Implications of Maintenance and Improvement of the Gulf Intracoastal Waterway in Texas,
W76-12390 9-23 5G

An Exploratory Survey and Analysis of Sailing in Galveston Bay, Texas,
W76-08095 9-15 6B

Recreational Lakes...What Are The Problems,
W76-02643 9-06 6B

DITWILER, C. D.
The Redistributional Consequences of Public Recreation Provision at the Potholes Reservoir--Columbia Basin Project, Washington,
W76-11168 9-21 6B

DIVINSKAYA, B. SH.
Possibility of Determining the Areas of Heavy Precipitation by Discrete Representation of Radar Data,
W76-05933 9-12 2B

DIX, G. P.
Considerations in the Public Acceptance of Sewage Sludge Irradiation Systems,
W76-09543 9-18 5D

DIX, T. G.
Mercury in Fish in the Derwent Estuary, Tasmania, and its Relation to the Position of the Fish in the Food Chain,
W76-00871 9-02 5A

Sand Flathead (Platycephalus Bassensis) an Indicator Species for Mercury Pollution in Tasmanian Waters,
W76-11820 9-22 5B

DIXIT, B.
The Specific Heat of Saline Ice,
W76-07776 9-15 2C

DIXNEUF, P.
Study of the Behaviour of Poliomyelitis Virus Type 1 in Different Hydrous Media, (In French),
W76-11569 9-21 5A

DIXON, D.
Operational Ice Forecast for the Little Rapids Cut,
W76-06658 9-13 2C

DIXON, K. W.
Process for Treating Sewage Sludge,
W76-00567 9-02 5D

DIXON, R. M.
Design and Use of Closed-Top Infiltrometers,
W76-01854 9-04 2G

Infiltration Control Through Soil Surface Management,
W76-02673 9-06 2G

DJAVANCHIR, A.
Net Assimilation, Water use and Microclimatology of a Maize Canopy: IV. Diurnal Courses of Stomatal Resistances and Water Saturation Deficit of Leaves; Effects Upon Net Assimilation, (In French),
W76-00060 9-01 2I

DJINDIC, M. V.
Development of Iron and Manganese Bacteria in Ranney Wells,
W76-03761 9-08 5B

DJOROLIJEVSKI, S. M.
Development of Iron and Manganese Bacteria in Ranney Wells,
W76-03761 9-08 5B

DMITRENKO, N.
The Peripheral Flood Zones of Gniewkowo Lowland from 1969 to 1972, (In Polish),
W76-09079 9-17 2I

DMITRIEV, A. S.
Effluents Biochemical Purification,
W76-02823 9-06 5D

MITRIYEVA, V. N.
Extractive-Polarographic Determination of Styrene and Methylmetacrylate in Industrial Waste Waters (Ekstraktsionno-polyarograficheskoye opredeleniye stirola i metilmetakrilata v promyshlennykh stochnykh vodakh),
W76-07544 9-15 5A

OAKE, C. S. M.
Glacier Sliding Measured by a Radio-Echo Technique,
W76-05378 9-11 2C

OAN, R. JR.
Sewer Insertion Renewal Saves Town $2.5 Million,
W76-01461 9-03 8G

OANE, W. M.
Removal of Heavy Metal Ions from Wastewater,
W76-08402 9-16 5D

OBBS, R. A.
Ammonia Removal from Wastewater by Ligand Exchange,
W76-12611 9-23 5D

Ligand Exchange Process for Removal of Ammonia,
W76-09056 9-17 5D

DOBRE, M.
The Effect of Certain Synthetic Macromolecular Substances on the Physico-Chemical Properties of Soil and on the Fertilizer Utilization Coefficient, (In French),
W76-08981 9-17 2G

DOBRINSKAYA, L. A.
Self-Regulation of the Population and Biomass of Schools of Yearling Carp, (In Russian),
W76-08832 9-17 2I

DOBROWOLSKI, W. M.
Problems of Galvanic Wastewater Purification in Closed Water Cycle (Problemy oczyszcania sciekow galwanizerskich w zamknietym obiegu wodnym),
W76-05285 9-11 5D

DOBRZANSKI, B.
Increasing Intensification of Plant Production and the Problem of Changes in the Natural Environment,
W76-00766 9-02 5B

DOBSON, S. H.
Dairy Waste Management Alternatives,
W76-00434 9-01 5D

DOCHERTY, A. E.
Effects of Heat Enrichment on Species Succession and Primary Production in Fresh-Water Plankton,
W76-08879 9-17 5C

DOCKTER, K. W.
Phenoxy Herbicide Residues and Their Persistence,
W76-11151 9-21 5B

DODD, J. C.
Algae Harvester,
W76-10478 9-19 5G

DODD, J. D.
Establishment of Vegetation for Shoreline Stabilization in Galveston Bay,
W76-07567 9-15 2L

DODD, V. A.
Eutrophication of an Inland Lake in Ireland in Association with the Intensification of Pig Farming in the Catchment Areas,
W76-05629 9-12 5C

DODDRIDGE, R. R.
Training and Certification,
W76-11654 9-22 5G

DODGE, A. Y.
Method and Apparatus for Desalinization of Water,
W76-05979 9-12 3A

DODGE, B. H.
Handbook of Forecasting Techniques,
W76-07062 9-14 6A

DODIN, A.
Practical Application of the Germicidal Power of Ultraviolet Irradiation to Drinking-water, (In French),
W76-09646 9-18 5F

DODOLINA, V. T.
Sugar Plant Waste Water Utilized for Irrigation,
W76-12846 9-24 5D

DODSON, S. I.
Zooplankton Competition and Predation: An Experimental Test of the Size-Efficiency Hypothesis,
W76-01729 9-04 2H

DOEBEREINER, J.
Phosphorus Deficiency in Cattle from the Brasilia Region of Brazil, (In Portugese),
W76-12322 9-23 5G

DOEHRING, D. O.
Modelling the Dynamic Response of Floodplains to Urbanization in Southeastern New England,
W76-02865 9-06 4C

DOERING, E. J.
Effect of Irrigation and Water-Table Depth on Crop Yields,
W76-00837 9-02 3F

DOERKSEN, H. R.
Citizen Influence in Water Policy Decisions: Context, Constraints, and Alternatives,
W76-01332 9-03 6B

Public Attitudes Toward Water Allocation in the State of Washington: Citizens, Interest Groups, and Agencies,
W76-04513 9-10 6B

Regional Instream Flow Needs in the Pacific Northwest: An Analysis of Institutional, Legal, and Technological Aspects of Allocation Processes for Limited Streamflow,
W76-01797 9-04 6B

DOHNERT, E. H.
Water Treating Apparatus,
W76-05547 9-12 5F

DOIRON, L. N.
Geomorphic Processes Active in the Southwestern Louisiana Canal, Lafourche Parish, Louisiana,
W76-02930 9-06 2J

DOJMI, M.
Pollution in the Effluents of Bracciano Lake and in Arrone Stream, on the Basis of the Distribution of Simuliidae, Chironomidae, Culcidae and Other Diptera, (In Italian),
W76-11570 9-21 5B

DOKOS, J. H.
Concentration of Brewery Spent Grain Liquor Using a Submerged Combustion Evaporator,
W76-04744 9-10 5D

DOLAN, T.
Biological Survey of the Savannah River in the Vicinity of the Savannah River Project. Part I - Report on the Work Done and Tentative Conclusions on the Summer Survey,
W76-10041 9-19 5C

DOLAN, T. IV
Biological Survey of the Savannah River in the Vicinity of the Savannah River Project, Part II - Report on Work Done and Tentative Conclusions on the Fall Survey,
W76-10042 9-19 5C

Biological Survey of the Savannah River in the Vicinity of the Savannah River Project. Part III - Report on the Work Done and Tentative Conclusions on the Winter Survey,
W76-10043 9-19 5C

DOLGIKH, G. A.
Hygienic Evaluation of an Epoxy Compound and the Possibility of its Use in Submersible Electric Pumps for Domestic Purposes, (In Russian),
W76-11528 9-21 5C

DOLOBOVSKAYA, A. S.
Aeration Tank,
W76-02845 9-06 5D

DOMBOIS, D. M.
A Non-Adapted Vegetation Interferes with Water Removal in a Tropical Rain Forest Area in Hawaii,
W76-06042 9-12 4A

DOMENICO, P. A.
Solution Chemistry, Mass Transfer, and the Approach to Chemical Equilibrium in Porous Carbonate Rocks and Sediments,
W76-06384 9-13 2K

DOMINGUE, E.
Storm Sewer Pipe Joints Tight After Ten Years,
W76-08966 9-17 8G

DOMINY, C. L.
Recent Changes in Atlantic Salmon (Salmo Salar) runs in the Light of Environmental Changes in the Saint John River, New Brunswick, Canada,
W76-11508 9-21 5C

DOMKA, F.
Investigations on the Microbial Reduction of Sulphates,
W76-05054 9-11 5D

DOMOKOS, M.
Evaluation of the Effects of Water Transfer,
W76-05751 9-12 6A

Problems in Forecasting Water Requirements,
W76-08098 9-15 6D

DONAGHE, R. T.
Effects of Anisotropic Versus Isotropic Consolidation in Consolidated-Undrained Triaxial Compression Tests of Cohesive Soils,
W76-07327 9-14 8G

DONAHUE, A. E.
Audiovisual Instructional Units for Water Pollution Control Training Programs,
W76-05074 9-11 5G

DONALDSON, D. E.
Ground-water Quality Beneath Solid-Waste Disposal Sites at Anchorage, Alaska,
W76-00656 9-02 5B

DONALDSON, I. G.
Underground Waters of the Lower Hutt--A Model Study,
W76-03753 9-08 2F

DONALDSON, W. T.
Capabilities and Limitations in Identifying and Measuring Aquatic Pollutants,
W76-10669 9-20 5A

DONASZY, E.
Principles of Sewage Treatment Through Utilization in Fish Ponds,
W76-03576 9-08 5D

DONCER, A. J.
Process and Apparatus for Treating Fatty Waste Water,
W76-10471 9-19 5D

Waste Treatment Process,
W76-10207 9-19 5D

DONDERSKI, W.
Generic Composition and Nutritional Requirements of Bacteria Isolated from Three Lakes,
W76-06120 9-12 2H

Studies on Metabolic Activity of Planktonic Bacteria Isolated from Three Lakes,
W76-07097 9-14 5C

DONELAN, M. A.
Determination of the Aerodynamic Drag Coefficient from Wind Set-Up,
W76-11437 9-21 2H

Generalized Profiles of Wind Speed, Temperature and Humidity,
W76-11304 9-21 2H

DONG, A. E.
Limnological Data for Donner Lake, California, May 1973 Through December 1973,
W76-02487 9-05 2H

DONGUY, J. R.
The Principal Aspects of Desalination of Surface Waters of the Tropical Southwestern Pacific, (In French),
W76-11539 9-21 2D

DONNAN, J. A.
South Dakota Weather Modification Program, Research Cooperative Studies Under Project Skywater,
W76-10819 9-20 3B

DONNELLEY, L. P.
Prices and Property Rights in the Fisheries,
W76-10586 9-20 6C

DONNELLY, R. F.
Coliform and Phytoplankton Studies in a Brackish Water Aquaculture Pond Fertilized with Domestic Wastewater,
W76-03568 9-08 5A

DONNELLY, R. G.
Reverse Osmosis Treatment of Electroplating Wastes,
W76-03066 9-07 5D

DONNIER, B.
The use of a Pelagic Trophodynamic Chain for Studying the Transfer of Metallic Pollutants, (In French),
W76-00577 9-02 5B

DONOVAN, D. J.
Long Term Weathering Characteristics of Iranian Crude Oil: The Wreck of the 'Northern Gulf',
W76-10405 9-19 5B

DONOVAN, W. J.
The Genesis and Function of the Fourth Water Resources Council Account,
W76-05355 9-11 6B

DONTSOVA, M. I.
Control of Coagulant Recovery from Effluent Sediment (Kontrol' regeneratsii koagulyantov iz osadka ctochnykh vod),
W76-05725 9-12 5E

Water Purification Coagulant Production,
W76-02839 9-06 5D

DOOLEY, W. G.
Corps Urban Planning in St. Louis-Maline Creek: An Interdisciplinary Effort,
W76-00074 9-01 3D

DORAN, D. G.
An Efficient Transition Definition for Discrete State Reservoir Analysis: The Divided Interval Technique,
W76-05161 9-11 4A

DORCEY, A. H. J.
An Assessment of University Interdisciplinary Research: The Wisconsin River and the Lower Fraser River Water Quality Studies,
W76-00077 9-01 5G

Research Issues in Water Quality Management,
W76-01351 9-03 5G

DORCHAK, K. J.
Physiologic Responses to Water Immersion in Man: A Compendium of Research,
W76-09655 9-18 10C

DORFMAN, D.
Bioassay Methods and Impact Evaluation of Ocean Disposal Sites,
W76-05087 9-11 5A

DORFMAN, M. H.
Water Required to Develop Geothermal Energy,
W76-13030 9-24 3E

DORFMAN, N. S.
Who Will Pay for Pollution Control.--The Distribution by Income of the Burden of the National Environmental Protection Program, 1972-1980,
W76-02376 9-05 5G

DORFMAN, P. J.
An Evaluation of Some Linear Decision Rules in Chance-Constrained Models for Reservoir Planning and Operation,
W76-04934 9-10 4A

DORICA, J.
Colour Measurement of Pulp Mill Effluents,
W76-09296 9-17 5A

Detoxification and Decolorization of Kraft Pulp Mill Effluents using Activated Carbon,
W76-09298 9-17 5D

DORMER, F.
Mode Tides,
W76-00905 9-02 2L

DORNBUSCH, D. M.
Benefits from Water Pollution Abatement, Property Values,
W76-10580 9-20 5G

DORNBUSH, J. N.
Agricultural Runoff Pollutes Surface Waters, Part I,
W76-02694 9-06 5B

Agricultural Runoff Pollutes Surface Waters, Part I,
W76-03719 9-08 5A

Bacteriological Quality of Surface Runoff From Agricultural Land, Part II,
W76-02695 9-06 5B

Egg-Processing Plant Wastes,
W76-08170 9-16 3E

Intercepting Trench at a Landfill Renders Leachate into Drinkable Source of Water,
W76-01627 9-04 5G

Pollution Potential of Runoff from Livestock Feeding Operations,
W76-10531 9-20 5B

DORNEANU, A.
The Effect of Certain Synthetic Macromolecular Substances on the Physico-Chemical Properties of Soil and on the Fertilizer Utilization Coefficient, (In French),
W76-08981 9-17 2G

DORNHELM, R.
A Post Construction Survey of Several Manmade Islands Off the Coast of California,
W76-09911 9-18 2L

DORRATCAGUE, D. E.
Remote Sensing of Mississippi River Characteristics,
W76-12442 9-23 7B

DORRINGTON, L. S.
Recent Developments in Tannery Effluent Disposal,
W76-12425 9-23 5D

DORTCH, M. S.
Outlet Works for Taylorsville Lake, Salt River, Kentucky; Hydraulic Model Investigation,
W76-07476 9-15 8B

DOSKEY, P. V.
Inputs of Phosphorus from Precipitation to Lake Michigan,
W76-13112 9-24 5B

DOSKINA, T. V.
Isolation of Parasitic and Saprophytic Strains of Bdellovibrio Bacteriovorus from Natural Waters, (In Russian),
W76-12262 9-23 5A

DOSS, B. D.
Disposal of Dairy Cattle Manure on Soil,
W76-07201 9-14 5D

DOTY, C. W.
Corn Plant Water Stress as Influenced by Chiseling, Irrigation, and Water Table Depth,
W76-11503 9-21 3F

Crop Response to Chiseling and Irrigation in Soils with a Compact A2 Horizon,
W76-09985 9-18 3F

OTY, W.
Kiln Dust from Cement Factories for Vacuum Filter Processing of Sewage Sludge,
W76-03214 9-07 5D

OUGAL, M. D.
Reservoir Project Environmental Study,
W76-02880 9-06 6B

OUGAN, W. K.
Absorptiometric Determination of Iron with T.P.T.Z.,
W76-08273 9-16 5A

OUGHERTY, C. T.
An Analysis of a Nitrogen-Induced Depression of Yield in Irrigated 'Kopara' Wheat,
W76-00152 9-01 3F

Effects of Irrigation and Fertiliser on the Yields of 'Arawa', 'Aotea', and 'Karamu' Wheats,
W76-00151 9-01 3F

The Relationship Between Solar Radiation, Soil Water, and Water Potential of Ears of Wheat,
W76-00150 9-01 3F

OUGLAS, E. L.
Fishes in Oxygen-Minimum Zones: Blood Oxygenation Characteristics,
W76-09112 9-17 5C

DOUGLAS, J. R.
The Use of Likelihood Functions to Fit Conceptual Models with More than One Dependent Variable,
W76-08729 9-16 2G

DOUGLASS, J. E.
Effects of Management Practices on Water Quality and Quantity: Coweeta Hydrologic Laboratory, North Carolina,
W76-02275 9-05 5G

Forest Management Impacts on Cold Water Fisheries,
W76-02274 9-05 4C

DOUGRAMEJI, J. S.
Characteristics and Classification of Two Soils in Diyala Basin, Iraq,
W76-06580 9-13 2G

Soil Moisture Regime of Unsaturated Zone in Some Arid Regions,
W76-06578 9-13 2G

DOUSA, A.
Residual Organic Matter in Activated Sludge Process Effluents. IX. Isolation from Water, Fractionation on Aluminum Oxide Columns and Attempts of Identification (Zbytkove latsy po aktivacnim procesu. IX. Izolace z vodneho prostredi, deleni na kyslicniku hlinitem a pokusy o identifikaci),
W76-10515 9-20 5A

DOVE, L. A.
Recycling Allows Zero Waste Water Discharge,
W76-03926 9-08 5E

The Symbiotic Approach to Water Reuse in St. Petersburg, Florida,
W76-11656 9-22 5D

DOVER, A.
A Cost Analysis System for Ports,
W76-06631 9-13 6A

DOVER, C.
'Thameswater' Helps in the Fight for a Cleaner River,
W76-03791 9-08 5A

DOW, R. L.
Reduced Growth and Survival of Clams Transplanted to an Oil Spill Site,
W76-11968 9-22 5C

DOWD, M. W.
Major Junction Structure Verified by Modeling,
W76-12840 9-24 8B

DOWDELL, S. H.
Test Program on Environmental Effects of Saltwater Mechanical Cooling Devices,
W76-04826 9-10 5A

DOWLER, W. L.
Carbon Wastewater Treatment Process,
W76-09441 9-18 5D

DOWLING, J. J.
Sedimentation Rates and Sediment Thickness in Lake Champlain,
W76-09759 9-18 2J

DOWNES, J. D.
Consider the Plant in Planning Wind Erosion Control Systems,
W76-06928 9-14 4D

DOWNING, D. L.
Dry Caustic Peeling of Beets and Carrots Reduces Pollution,
W76-08504 9-16 5D

Reduction in Oxygen Demand of Abattoir Effluent by Precipitation with Metal,
W76-08169 9-16 5D

Waste Reduction in Table Beet Processing,
W76-04735 9-10 3E

DOWNING, R. A.
The Age of Groundwater in the Chalk of the London Basin,
W76-11848 9-22 2F

Saline Ground Waters in the Carboniferous Rocks of the English East Midlands in Relation to the Geology,
W76-00488 9-01 2F

The Use of a Digital Model in the Management of the Chalk Aquifer in the South Downs, England,
W76-02714 9-06 4B

The Use of a Digital Model in the Management of the Chalk Aquifer in the South Downs, England,
W76-03356 9-07 4B

DOWSE, L. H.
Groundwater Pollution Control in an Industrialized Part of the Trent Basin,
W76-02691 9-06 5G

DOWTY, B.
Application of a Computer-Based Chromatograph for Automated Water Pollution Analyses,
W76-10038 9-19 5A

DOWTY, B. J.
New Orleans Drinking Water Sources Tested by Gas Chromatography Mass Spectrometry, Occurrence and Origin of Aromatics and Halogenated Aliphatic Hydrocarbons,
W76-00603 9-02 5A

DOYLE, F. L.
Determination of Points of Entry for Potential Contaminants into Limestone Aquifers Using Thermal Infrared Imagery,
W76-01840 9-04 5B

DOYLE, J.
Urban Stormwater Management Modeling and Decision-Making,
W76-11599 9-21 5D

DOYLE, J. R.
Urban Stormwater Management Modeling and Decision-Making,
W76-00695 9-02 5D

DOYLE, R. C.
Effectiveness of Forest Buffer Strips in Improving the Water Quality of Manure Polluted Runoff,
W76-07189 9-14 5B

DOYLE, W. J.
Pressure Sewer System,
W76-02181 9-05 5D

DOZZI, J. T.
Flood Plain Mapping: Photogrammetric Data for Hydrology,
W76-02164 9-05 7C

DRABBE, J.
The Measurement and Recording of Rainfall Intensities,
W76-06692 9-13 2B

DRABLOS, C. J. W.
Deflection-Stiffness Characteristics of Corrugated Plastic Tubing,
W76-13018 9-24 4A

DRACUP, J. A.
Systems Approach for the Planning and Management of the Morava River Basin, Yugoslavia,
W76-11886 9-22 4A

Transient Water Quality Modeling in Streams,
W76-06433 9-13 5B

Transient Water Quality Modeling in Streams,
W76-08730 9-16 5B

Water Quality Modeling of Deep Reservoirs,
W76-04552 9-10 5B

DRAGAS, A. Z.
Is the Examination of Drinkable Water and Swimming Pools on Presence of Enteropathogenic E. Coli Necessary, (In German),
W76-09785 9-18 5C

DRAGO, C. E.
Thermal Structure of Lake Mascardi (Province of Rio Negro, Argentina, (In Spanish),
W76-09358 9-17 2H

DRAKE, D. E.
Distribution and Transport of Suspended Particulate Matter in Submarine Canyons off Southern California,
W76-03885 9-08 2L

DRAKE, J. J.
The Effect of Climate on the Chemistry of Carbonate Groundwater,
W76-04297 9-09 2F

Regional Hydrochemistry of North American Carbonate Terrains,
W76-04298 9-09 2K

DRAKE, S. H.
Studies on the Animal Communities in Two North Florida Salt Marshes. Part I. Fish Communities,
W76-08161 9-16 2L

DRANEY, C. T.
Geothermal Energy Recovery Process,
W76-10967 9-20 3A

DRAPER, D. W.
Application of Linear Programming Optimization to a Northern Ontario Hydro Power System,
W76-08074 9-15 4A

DRAPER, J. B.
Appropriation by the State of Minimum Flows in New Mexico Streams,
W76-11899 9-22 4A

DRAPIER-ARSENAULT, L.
Ice Dynamics in the Canadian Archipelago and Adjacent Arctic Basin as Determined by ERTS-1 Observations,
W76-04412 9-09 2C

DREIER, W.
The Influence of High Salt Concentrations on Various Physiologic Paramters of Maize Roots, (In German),
W76-06790 9-13 3C

DRESCHER-KADEN, U.
Pesticide and PCB Residue in Organs of Wild Animals as Indicators of Environmental Contamination, (In German),
W76-09922 9-18 5A

DRESNACK, R.
Current Trends in Packaged Wastewater Treatment Facilities, Part I,
W76-00272 9-01 5D

Current Trends in Packaged Wastewater Treatment Facilities, Part II,
W76-02219 9-05 5D

Current Trends in Packaged Wastewater Treatment Facilities, Part III,
W76-03788 9-08 5D

DRESSCHER, G. N.
A Simplified Method for the Biological Assessment of The Quality of Fresh and Slightly Brackish Water,
W76-13115 9-24 5A

DRESSEL, J.
The Leaching Behavior of Different Nitrogen Sources in Lysimeter Experiments, (In German),
W76-09793 9-18 2G

DRESSLER, F. R. S.
Storm Water Management Model: Dissemination and User Assistance,
W76-00678 9-02 5G

DREW, A. W.
A Pre-Impoundment Study of the Fish Fauna of Indian Creek, Dekalb County, Illinois,
W76-06251 9-13 2E

DREW, J. V.
Use of Erts-1 Imagery to Interpret the Wind Erosion Hazard in Nebraska's Sandhills,
W76-01309 9-03 2J

DREWA, G.
Effect on Detergents and of Phospho-Gypsum on the Oxygen and Chlorophyll a Levels and on the Dry Weight of the Residue of Brackish Water Under Laboratory Conditions,
W76-01942 9-04 5C

DREWRY, D. J.
Comparison of Electromagnetic and Seismic-Gravity Ice Thickness Measurements in East Antarctica,
W76-05382 9-11 7B

DREYFUS, A.
Construction and Utilization of Complex Mathematical Models in the Planning of the Optimal Development of Large Hydrographic Systems and River Basins,
W76-12566 9-23 4A

DRIBIZOVA, S. B.
Role of Bogs in the Formation of Spring Flood Runoff Losses in the Drainage Basins of the Northwestern European USSR,
W76-06175 9-13 4A

DRIEBERG, T.
How Sri Lanka Plans to Develop Her Fishing Industry,
W76-12957 9-24 6B

DRIEDZIC, W.
Glycerophosphatide Content and Composition of Trout (Salvelinus Fontinalis M.) Brain,
W76-08929 9-17 5C

DRIGGERS, L. B.
Dairy Waste Management Alternatives,
W76-00434 9-01 5D

Swine Production and Waste Management: State-of-the-Art,
W76-07178 9-14 5D

DRINKWATER, K. F.
Coastal Circulation and Physical Oceanography of the Scotian Shelf and the Gulf of Maine,
W76-08125 9-16 2L

The Role of Tidal Mixing in Rupert and Holberg Inlets, Vancouver Island,
W76-02413 9-05 2L

DRISCOLL, L. B.
Land-Use Classification Map of the Boulder-Fort Collins-Greeley Area, Front Range Urban Corridor, Colorado,
W76-12790 9-24 7C

Land-Use Classification Map of the Colorado Springs--Castle Rock Area, Front Range Urban Corridor, Colorado,
W76-12788 9-24 7C

DRITT, J. O.
Interdisciplinary/Interinstitutional Requirements for Water Resource Planning: Processes to Enhance Cooperation,
W76-10609 9-20 6B

DRNEVICH, V. P.
Response of Saturated Sands to Cyclic Shear at Earthquake Amplitudes,
W76-01814 9-04 8D

DRONKERS, J. J.
Tidal Theory and Computations,
W76-06414 9-13 2L

DROOP, M. R.
The Nutrient Status of Algal Cells in Continuous Culture,
W76-04596 9-10 5C

DROSSEL, M. R.
Contractor Teams Touch All Bases Building Water-Side Sewage Facility,
W76-01563 9-04 5D

DROSSOS, M. E.
Local Erosion Caused by Rapid Forced Infiltration,
W76-03858 9-08 2J

DROSTE, R. L.
Quality and Variation of Pollutant Loads in Urban Stormwater Runoff,
W76-05576 9-12 5B

DROUIN, M.
Pressures of Thermal Origin Exerted by Ice Sheets upon Hydraulic Structures,
W76-11750 9-22 2C

DROZD, N. I.
Formation of Water and Sediment Discharge During the Spring Flood on a Slope and in a Small Gully-Ravine Drainage Basin,
W76-06176 9-13 2J

DROZDOV, N. P.
Purification of Gum Rosin Producing Plant Effluents from Resinous Substances (Ochistka stochnykh vod kanifol'noterpentinnogo proizvodstva ot smolistykh veshchestv),
W76-05735 9-12 5D

Rapid Determination of the Cod of Effluents (Uskorennoe opredelenie KhPK stochnykh vod),
W76-05705 9-12 5A

DRUFUCA, G.
Statistics of Raingage Data,
W76-05693 9-12 2B

DRYFOOS, R. L.
Distribution of Tar Balls and Neuston Sampling in the Gulf Stream System,
W76-10410 9-19 5B

DUBACH, M.
Method for Eliminating Organic and Inorganic Bound Nitrogen from Domestic and Industrial Waste Water,
W76-09413 9-18 5D

DUBAIS, B. A.
Compensation for Oil Pollution Damage Resulting from Exploration and Exploitation of Hydrocarbons in the Seabed,
W76-04333 9-09 6E

DUBBELDAY, P. S.
Physical Aspects of the Lagoonal Complex Surrounding KSC (Kennedy Space Center),
W76-01896 9-04 2L

DUBE, P. A.
Effects of Water Stress on Leaf Respiration, Transpiration Rates in the Dark and Cuticular Resistance to Water Vapor Diffusion of Two Corn Inbreds,
W76-06266 9-13 2D

DUBE, S. K.
Extreme Rainfall Studies of the Brahmani, The Burhabalang, The Rushikulya and the Subarnarekha River Catchments,
W76-08733 9-16 2B

DUBEY, G. A.
Research on the Mechanisms for Removal of Soluble BOD(5) in Clarifier Systems,
W76-11378 9-21 5D

UBOIS, D. M.
A Model of Patchiness for Prey-Predator Plankton Populations,
W76-11878 9-22 5C

UBREUIL, J.-P.
The Application of 'Biotic Indices' to the Study of Pollution in a River with Cyprinidae, (In French),
W76-11580 9-21 5A

Contribution to the Study of Storm Water in Urban Environment (Contribution A L'etude Des Eaux De Ruissellement En Milieu Urbain),
W76-11637 9-22 5A

UBYNA, D. V.
Distribution, Phytocenology and Productivity of Nymphaeaceae in Reservoirs of the Dnieper Cascade, (In Ukranian),
W76-07314 9-14 5C

UCELLIER, G.
Recovery of Materials from the Wastewater From Wine Distilleries by Drying the Mixture of Solid and Liquid Wastes,
W76-01635 9-04 5D

UCKSTEIN, L.
Bayesian Approach to Tile Drain Design,
W76-12527 9-23 8B

Decision Analysis for Watershed Management Alternatives,
W76-06905 9-14 4D

Decision Making and Planning for River Basin Development,
W76-05752 9-12 6A

A Direct Method for the Identification of the Parameters of Dynamic Nonhomogeneous Aquifers,
W76-02943 9-06 2F

Economic Uncertainties in Water Resources Project Design,
W76-12514 9-23 6A

Finite State Mixing-Cell Models,
W76-06594 9-13 2F

Levee System Reliability Along a Confluence Reach,
W76-03383 9-07 8B

Long Range Planning of Water Resources: A Multi Objective Approach,
W76-05760 9-12 6A

Maximum Information Obtainable from Inadequate Design Data: from Multivariate to Bayesian Methods,
W76-09625 9-18 4A

Mountainous Winter Precipitation: A Stochastic Event-Based Approach,
W76-09062 9-17 2B

Multi-Criterion Ranking of Alternative Long-Range Water Resource Systems,
W76-11139 9-21 6B

On The Joint Distribution of the Largest Flood and its Time of Occurrence,
W76-11694 9-22 2E

Problems in Forecasting Water Requirements,
W76-08098 9-15 6D

Release Control Policy for a Large Lake Subject to Wind Waves,
W76-06421 9-13 4A

The Role of New Technologies for Improved Water Management and Related Effects on Water Law Systems,
W76-09065 9-17 3E

Trade-Off Between Models and Information in River Basin Planning,
W76-11702 9-22 4A

Uncertainties in Karstic Water Resources Systems,
W76-06595 9-13 2F

Uncertainty in Sediment Yield From A Semi-Arid Watershed,
W76-02240 9-05 2J

The Use of Multiple Regression Models in Predicting Sediment Yield,
W76-11693 9-22 2J

DUCRET, G. L. JR.
Rainfall-Runoff Data from Small Watersheds in Colorado, October 1971 through September 1974,
W76-06446 9-13 7C

DUCROS, M. J. F.
Automated Methods for Assessing Water Quality Come of Age,
W76-03233 9-07 5A

DUDAREV, A. Y.
Experience in Decontamination of Industrial Wastes and Treatment Plant Sediments in Leningrad, (In Russian),
W76-12291 9-23 5D

DUDKA, I. O.
Some Aspects of Foam and Scum Mycoflora in the Running Waters of Polesye and Steppe of the Ukrainian SSR, (In Ukranian),
W76-12323 9-23 5C

DUDLEY, N.
Tradeoffs Between Irrigation Systems with Different Reliabilities of Supply,
W76-01424 9-03 3F

DUDZIK, M.
Stability Indicators for Nutrient Cycles in Ecosystems,
W76-04838 9-10 5C

DUEDALL, I. W.
Fate of Wastewater Sludge in the New York Bight Apex,
W76-03825 9-08 5E

Sewage Sludge and Ammonium Concentrations in the New York Bight Apex,
W76-06667 9-13 5B

DUEKER, K. L.
Reservoir Project Environmental Study,
W76-02880 9-06 6B

DUEWER, D. L.
Source Identification of Oil Spills by Pattern Recognition Analysis of Natural Elemental Composition,
W76-02397 9-05 5A

DUFF, B. F.
Time Parameter Evaluation in Dual Flocculant Destabilization,
W76-12211 9-23 5D

DUFFER, W. R.
Lagoon Effluent Solids Control by Biological Harvesting,
W76-05322 9-11 5D

DUFFIELD, G.
Why Chlorinate,
W76-00261 9-01 5F

DUFFY, J.
A Simulation Model of Biophysiochemical Transformations of Nitrogen in tile-Drained Corn Belt Soil,
W76-08761 9-17 5B

DUFFY, P. D.
Dissolved Nutrient Losses in Storm Runoff from Five Southern Pine Watersheds,
W76-12172 9-23 5B

Dissolved Nutrient Losses in Storm Runoff from Five Southern Pine Watersheds,
W76-12436 9-23 5B

DUFFY, T. G.
Analysis for Aqueous Nitrates and Nitrites and Gaseous Oxides of Nitrogen by Electron Capture Gas Chromatography,
W76-03707 9-08 5A

DUFRESNE, A. F.
Liquid Distribution System for Irrigation and the Like,
W76-09868 9-18 3F

DUGAL, H. S.
Color Characterization of Kraft Linerboard Decker Effluent,
W76-12472 9-23 5A

Kraft Effluent Color Nature Before and After Lime Treatment,
W76-04081 9-09 5D

DUGAN, G. L.
Land Disposal of Wastewater in Hawaii,
W76-01557 9-04 5E

Quality and Quantity of Nonpoint Pollution Sources in Rural Surface Water Runoff on Oahu, Hawaii,
W76-07583 9-15 5B

DUGAN, P. R.
Bioflocculation and the Accumulation of Chemicals by Floc-Forming Organisms,
W76-02267 9-05 5D

DUGDALE, J.
Development of Edinburgh's Sewage Disposal Scheme,
W76-09707 9-18 5D

Edinburgh's Sewage-Treatment and Disposal Scheme,
W76-05794 9-12 5D

DUGDALE, R. C.
Results of Sea Surface Mapping in the Peru Upwelling System,
W76-02698 9-06 5A

DUGGER, R. R.
Ecosystems Analysis of the Big Cypress Swamp and Estuaties,
W76-10046 9-19 6G

DUGUID, J. O.
Status Report on Radioactivity Movement from Burial Grounds in Melton and Bethel Valleys,
W76-04834 9-10 5B

Water Movement Through Saturated-Unsaturated Porous Media: A Finite-Element Galerkin Model,
W76-07569 9-15 2F

DUKE, C. M.
Chicago's Switch to Free Chlorine Residuals,
W76-00236 9-01 5F

DUKE, H. R.
Beef Cattle Feedlots: Impact on Underlying Soil,
W76-11047 9-20 5B

Comparisons of Calculated and Measured Capillary Potentials from Line Sources,
W76-07768 9-15 2G

Quantity and Quality of Beef Feedyard Runoff in the Great Plains,
W76-07196 9-14 5B

Steady Infiltration From Line Sources Buried in Soil,
W76-01065 9-03 3F

DUKE, K. D.
Monitoring Lab Gives City the Jump on Safe Drinking Water Regulations,
W76-03240 9-07 5F

DUKE, K. M.
Fallout Cesium-137 and Mineral-Element Distribution in Food Chains of Granitic-Outcrop Ecosystems,
W76-10307 9-19 5B

DUKE, P. L.
Illinois Drainage Law--The Dominant Estate Owner May Not Increase the Rate or Amount of Surface Water Run-Off onto the Servient Estate Beyond a Range Consistent with a Policy of Reasonable Use,
W76-06051 9-12 4A

DUKHOVNAYA, I. S.
Determination of M-Phenylenediamine in Water, (In Russian),
W76-11730 9-22 5A

DULANEY, E. L.
Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Steel Making Segment of the Iron and Steel Manufacturing Point Source Category,
W76-01214 9-03 5G

DULIN, J. M.
Sodium Sulfur Oxides Wastes Disposal Process,
W76-13143 9-24 5D

DUNAWAY, W. C.
Social Effects of Changes in Uses of Bear Lake, An Interstate Body of Water,
W76-02634 9-06 6B

DUNBAR, J. O.
Educational and Informational Needs for Achieving Public Acceptance,
W76-11640 9-22 5G

DUNBAR, M.
Interpretation of Slar Imagery of Sea Ice in Nares Strait and the Arctic Ocean,
W76-05386 9-11 7B

DUNBAR, R.
Groundwater Property Rights and Controversies in Montana,
W76-12154 9-23 6E

DUNCAN, T. K.
Effect of an Oil Spill on Benthic Animals in the Lower York River, Virginia,
W76-10412 9-19 5C

DUNCAN, T. O.
A Review of Literature on the Use of Potassium Permanganate (KMn04) in Fisheries,
W76-12335 9-23 5C

DUNHAM, J. W.
Small-Craft Harbors: Design, Construction, and Operation,
W76-02548 9-06 8A

Woven Plastic Cloth Filters for Stone Seawalls,
W76-07230 9-14 8C

DUNHAM, R. J.
The Influence of Soil Water Content on the Uptake of Ions by Roots: II. Chloride Uptake and Concentration Gradients in Soil,
W76-11925 9-22 2G

DUNIGAN, E. P.
Use of Waterhyacinths to Remove Nitrogen and Phosphorus from Eutrophic Waters,
W76-01148 9-03 5C

DUNIN, F. X.
Use of Physical Process Models,
W76-04140 9-09 2A

DUNKELBERGER, G. W. JR.
Practical Application of a Biological/Physical/Chemical Treatment System to Meat Packing Wastewater,
W76-04745 9-10 5D

DUNKERS, K. R.
Sewage Flocculating and Sedimentation Tank Unit,
W76-00594 9-02 5D

DUNMIRE, C. W.
Impact Sprinkler,
W76-05956 9-12 3F

DUNN, B.
Adams County Surface Water Resources,
W76-01317 9-03 7C

Floodflow Characteristics at Proposed Bridge Site on Mohawk River in Towns of Frankfort and Schuyler, Herkimer County, New York,
W76-11079 9-20 4A

Floodflow Characteristics at Proposed Bridge Site on Mohawk River, Whitesboro, New York,
W76-02136 9-05 4A

Floodflow Characteristics at Proposed Bridge Site on West Branch Delaware River, Delhi, New York,
W76-02137 9-05 4A

DUNN, B. P.
Release of the Carcinogen Benzo(a) Pyrene from Environmentally Contaminated Mussels,
W76-12328 9-23 5B

DUNN, C. S.
Interpretation of in Situ Permeability Tests on Anisotropic Deposits,
W76-12455 9-23 2G

DUNN, I. J.
Dynamic Modelling and Control Simulation of a Biological Wastewater Treatment Process,
W76-10018 9-19 5D

DUNN, K. S.
Incineration's Role in Ultimate Disposal of Process Wastes,
W76-05791 9-12 5E

DUNN, P. F.
Discussion (Of, 'Corps Urban Planning In St. Louis-Maline Creek: An Interdisciplinary Effort,' by E.D. Rahubka, et al.),
W76-00075 9-01 3D

DUNNAT, J. J.
Groundwater Resources of Altun-Kupri Area,
W76-06576 9-13 4B

DUNNE, T.
Recognition and Prediction of Runoff-Producing Zones in Humid Regions,
W76-07073 9-14 2E

DUNNING, J. A.
Effects of Sulfur Dioxide and/or Ozone on Several Oat Varieties, 1975 Annual Report,
W76-11190 9-21 5C

DUNNINGAN, L. P.
Identification and Nature of Dispersive Soils,
W76-13170 9-24 8D

DUNSMORE, D. A.
Automated Forecast Procedures for River Quality Management,
W76-10664 9-20 5A

DUNSON, W. A.
Differences in Low PH Tolerance Among Strains of Brook Trout (Salvelinus Fontinalis),
W76-10074 9-19 5C

DUNSTAN, W. M.
Control of Species Composition in Enriched Mass Cultures of Natural Phytoplankton Populations,
W76-06757 9-13 5C

River Input of Inorganic Phosphorus and Nitrogen to the Southeastern Salt-Marsh Estuarine Environment,
W76-10286 9-19 5C

The Role of Spartina Alterniflora in the Flow of Lead, Cadmium, and Copper Through the Salt-Marsh Ecosystem,
W76-10281 9-19 5C

Spartina Revegetation on Dredge Spoil in SE Marshes,
W76-03121 9-07 5G

Stimulation and Inhibition of Phytoplankton Growth by Low Molecular Weight Hydrocarbons,
W76-01923 9-04 5C

DUPLECHIN, J. L.
Stream Bottom Organisms as Indicators of Ecological Change: Phase II,
W76-07586 9-15 5C

DUPRE, H. K.
Method of Making Snow,
W76-10958 9-20 3B

DUPRIEZ, G. L.
Conceptual Hydrological Model for an Average-Sized Catchment Area, II. Estimate of Parameters, Validity of Model, Application,
W76-09580 9-18 2A

Conceptual Hydrological Model for an Averaged-Sized Catchment Area, I. Concepts and Relationships,
W76-09579 9-18 2A

DUPUIS, R. J.
Computerized Monthly Reports, Cost-Effective Alternative,
W76-06300 9-13 7C

UPZYK, I. A.
Isotopic Analysis of Plutonium in Environmental Samples by Isotope Dilution Mass Spectrometry,
W76-08612 9-16 5A

UPZYK, R. J.
Isotopic Analysis of Plutonium in Environmental Samples by Isotope Dilution Mass Spectrometry,
W76-08612 9-16 5A

URBIN, E. G.
Seasonal Studies on the Relative Importance of Different Size Fractions of Phytoplankton in Narragansett Bay (USA),
W76-08686 9-16 5C

URBIN, P. A.
The Structure and Dynamics of the Ocean Surface Mixed Layer,
W76-03733 9-08 2L

URBIN, T. J.
Selected Effects of Suburban Development on Runoff in South-Coastal, California.
W76-12810 9-24 4C

URFEE, R. L.
Development of a Study Plan for Definition of PCBS Usage, Wastes, and Potential Substitution in the Investment Casting Industry,
W76-12713 9-24 5G

URHAM, D. L.
Expansion of Port Hueneme, California; Hydraulic Model Investigation,
W76-07468 9-15 8B

Lake Erie International Jetport Model Feasibility Investigation; Report 17-3, Longshore Wave Energy Analyses,
W76-07470 9-15 8B

Los Angeles and Long Beach Harbors Model Study; Report 1, Prototype Data Acquisition and Observations,
W76-11751 9-22 8B

URKIN, M. K.
The Operation of a Simplex Activated Sludge Pilot Plant in an Atmosphere of Pure Oxygen,
W76-09669 9-18 5D

The Operation of a Simplex Activated Sludge Pilot Plant in an Atmosphere of Pure Oxygen, Part 2,
W76-12665 9-23 5D

URKIN, P. R.
Preliminary Environmental Hazard Assessment of Chlorinated Naphthalenes, Silicones, Fluorocarbons, Benzenepolycarboxylates, and Chlorophenols,
W76-00326 9-01 5C

Review and Evaluation of Available Techniques for Deterimining Persistence and Routes of Degradation of Chemical Substances in the Enviroment,
W76-12865 9-24 5A

URNING, R. F.
Water Use as a Factor in Meeting Electric Power Needs,
W76-00747 9-02 6D

URST, R. E.
Continued Studies (Phase II) in the Search for A Predictive Model for Sludge Characterization Useful to Design and Control of Sludge Dewatering Processes in Water Recycle Systems,
W76-11116 9-21 5D

URVE, V. S.
Experimental Transplantation of the Clam Meretrix Casta (Chemnitz) in the Marine Fish Farm,
W76-05447 9-11 2L

URY, G. H.
Discharge Prediction, Present and Former, from Channel Dimensions,
W76-12198 9-23 2E

USEK, D. A.
Alternate-Furrow Irrigation of Fine Textured Soils,
W76-01073 9-03 3F

Deep Tillage of Graded-Furrow-Irrigated Pullman Clay Loam,
W76-08543 9-16 3F

Limited Irrigation of Grain Sorghum in Alternating Strips with Wheat,
W76-08542 9-16 3F

No-Till Seeding of Irrigated Sorghum Double Cropped After Wheat,
W76-08756 9-17 3F

USHAUSKENE-DUZH, N. F.
The Role of Aquatic Plants in the Migration of Sr90 in Some Water Reservoirs of the Lithuanian SSR,
W76-06868 9-14 5B

USHIN, A. I.
Feeding of Two Frog Species in Fishery Ponds of the Mordovian Assr, (In Russian),
W76-02600 9-06 2I

USOGE, K.
Experimentally Increased Fish Stock in the Pond Type Lake Warniak. IX. Numbers and Biomass of Bottom Fauna,
W76-03539 9-08 2H

UTKA, B. J.
Bacteria and Phosphorus as Indicators of the Extent of a Large Sewage Spill in Lake Erie,
W76-11315 9-21 5A

A Preliminary Study on the Occurrence and Distribution of Geofungi in Lake Ontario Near the Niagara River,
W76-11427 9-21 2H

Relationship Between Various Bacterial Populations and Coprostanol and Cholesterol,
W76-06336 9-13 5C

Study on the Efficiency of Four Procedures for Enumerating Coliforms in Water,
W76-12897 9-24 5A

UTTON, J. W. R.
A Review of Methods for the Determination of Iodine-131 in the Marine Environment,
W76-08622 9-16 5A

A Review of Methods for the Determination of Radioactive and Stable Silver in the Marine Environment,
W76-08621 9-16 5A

A Review of Methods for the Determination of Radioactive and Stable Zirconium in the Marine Environment,
W76-08620 9-16 5A

A Study of the Stability of Some Radionuclides in Seawater,
W76-08625 9-16 5A

UVALL, D. S.
Characterization and Utilization of Municipal and Utility Sludges and Ashes, Volume I-Summary,
W76-00687 9-02 5E

Characterization and Utilization of Municipal and Utility Sludges and Ashes. Volume II - Municipal Sludges,
W76-00688 9-02 5E

Characterization and Utilization of Municipal and Utility Sludges and Ashes, Volume III - Utility Coal Ash,
W76-00689 9-02 5E

Characterization and Utilization of Municipal and Utility Sludges and Ashes. Volume IV - Municipal Incinerator Residues,
W76-00690 9-02 5E

VORN, R.
Treated Sewage for Power Plant Makeup Water,
W76-00786 9-02 5D

WIVEDI, S. N.
Oil Pollution Along the Indian Coastline,
W76-10386 9-19 5B

WORKIN, D.
An Evaluation of Water Reuse for Municipal Supply,
W76-00514 9-02 5D

WORKIN, D. M.
Water Reuse: A Flexible and Efficient Management Alternative for Municipal Water Supply,
W76-01330 9-03 5D

WORSKI, J. G.
Measurement of Internal Waves of Tidal Frequency Near a Continental Boundary,
W76-02710 9-06 2L

WORSKY, L. B.
Cooperative Management and Development of International River Basins,
W76-06428 9-13 4A

Management of the International Great Lakes,
W76-01358 9-03 6E

WYER, F. G.
Efficient, Nonpolluting Ethylbenzene Process,
W76-05498 9-11 5D

WYER, R. L.
A Preliminary Assessment of the Environmental Vulnerability of Machias Bay, Maine to Oil Supertankers,
W76-13087 9-24 6G

WYER, W. P.
The Influence of Temperature on Scope for Activity in Cutthroat Trout, Salmo Clarki,
W76-02388 9-05 5C

Toxaphene Effects on Reproduction, Growth, and Mortality of Brook Trout,
W76-07248 9-14 5C

WYER, W. V.
Calculate Chemical Additive Feed Rates in Three Steps,
W76-07008 9-14 5F

YBERN, B. I.
The Idefjord: A Destroyed Marine Environment, (In Swedish),
W76-06988 9-14 5B

DYER, T. G. J.
The Assignment of Rainfall Stations into Homogeneous Groups: An Application of Principal Component Analysis,
W76-03368 9-07 2B

On the Components of Time Series; The Removal of Spatial Dependence,
W76-08803 9-17 2B

Secular Changes in South Africa Rainfall: 1880 to 1972,
W76-03367 9-07 2B

DYLLA, A. S.
Sprinkler Irrigation Percolation Losses,
W76-13005 9-24 3F

DYRNESS, C. T.
Impact of Clear-Cutting and Road Construction on Soil Erosion by Landslides in the Western Cascade Range, Oregon,
W76-05614 9-12 4C

Nutrient Cycling in 37- and 450-Year-Old Douglas-Fir Ecosystems,
W76-05619 9-12 5B

DYSART, B. C. III
Multi-Objective Water Resources Planning: Methodology to Achieve Compatibility Between Environmental Amenities and Economic Development,
W76-05840 9-12 6B

Public Participation in Water and Waste Water Planning,
W76-05371 9-11 6B

Restoring the Quality of Urban Receiving Waters: Interfacing Upgraded Treatment Facilities with the Stream,
W76-05839 9-12 5D

DYUBCHENKO, L. V.
On the Mechanism of Gamma-Radiolysis of Effluents (K mekhanizmu gamma-radioliza stochnykh vod),
W76-12508 9-23 5D

DZIALO, J.
Modifications Improve Chlorine Contact Chamber Performance, Part I,
W76-03231 9-07 5F

Modifications Improve Chlorine Contact Chamber Performance, Part II,
W76-07056 9-14 5D

DZIEDZIC, J.
The Vegetation of the 'Lukniany Lake' Nature Reserve in the Mazurian Lake District,(In Polish),
W76-09990 9-18 5C

DZURIK, A.
Deepwater Ports: Policy Issues in Florida,
W76-11473 9-21 6G

EADENS, C.
Sewer Cleaner Flushes Out Acids,
W76-09032 9-17 8G

EAGLE, R.
Plutonium Radionuclides in the Groundwaters at Enewetak Atoll,
W76-08607 9-16 5B

EAGLE, R. A.
Natural Fluctuations in a Soft Bottom Benthic Community,
W76-03765 9-08 5C

EAGLE, R. J.
Preliminary Evaluation of the Radiological Quality of the Water on Bikini and Eneu Islands,
W76-12701 9-24 5C

EAGLES, T. W.
Mechanical-Draft Cooling Tower Visible Plume Behavior: Measurements Models, Predictions,
W76-04817 9-10 5B

EAGON, H. B.
Well Field Maintenance Avoids Crises,
W76-10103 9-19 8G

EALY, C. D.
Environmental Aspects of Run-off and Siltation in the Anacostia Basin from Hyperaltitude Photographs,
W76-07568 9-15 4D

EARLE, J. E.
Progress Report on the Water Resources Investigation of Martin County, Florida,
W76-06459 9-13 4B

EARLL, R.
Selector Systems in Recording Physiological and Behavioral Activity in Sedentary Aquatic Animals,
W76-06039 9-12 2I

EASTER, S. J.
Influence of Soil-Water Potential on the Water Relationships of Honey Mesquite,
W76-00703 9-02 2D

EASTERBROOK, C. C.
The Life Cycle of California Coastal Fog Onshore,
W76-01493 9-03 2B

EASTMAN, C.
How Much to Abate Pollution,
W76-04539 9-10 5G

EASTON, A. J.
The Colorimetric Determination of Titanium in Chromites,
W76-02889 9-06 5A

EATON, H. N.
Capacities of Stacks in Sanitary Drainage Systems for Buildings,
W76-02201 9-05 8B

EATON, J. S.
Leaching of Nutrients from Leaves of Selected Tree Species in New Hampshire,
W76-10312 9-19 5B

EATON, J. W.
Chlorine-Induced Mortality in Fish,
W76-03775 9-08 5C

EATON, S. D.
The Colorado River Salinity Problem with Mexico,
W76-05194 9-11 5G

EBEL, W. J.
Effects of Various Concentrations of Dissolved Atmospheric Gas on Juvenile Chinook Salmon and Steelhead Trout,
W76-03032 9-07 5C

EBERHARDT, L. L.
Some Methodology for Appraising Contaminants in Aquatic Systems,
W76-03048 9-07 5B

EBERT, H.
Process and Apparatus for Continuous Workup of Phosphorus-Containing Residues,
W76-04055 9-09 5D

EBINUMA, O.
Studies of Flocculation and Sedimentation Treatment of Pulp Mill Effluents: An Approach of a Closed System Using Calcium Aluminate Hydrates (In Japanese),
W76-09284 9-17 5D

EBY, R. H.
Reaction Arm for Rotary Sprinkler,
W76-10978 9-20 3F

ECHELBERGER, L. M.
Ion Exchange of Metals from Aqueous Solutions,
W76-03516 9-08 5D

ECHELBERGER, W. F. JR
Automation of Water Supply Systems,
W76-12817 9-24 5F

ECHELLE, A. A.
Cyprinodon Tularosa, A New Cyprinodontid Fish From the Tularosa Basin, New Mexico,
W76-02668 9-06 2H

Viability of Algae in the Digestive Tracts of Two Cyprinodontids,
W76-04149 9-09 2I

ECHENFELDER, W. W. JR.
Wastewater Treatment Design, Part II,
W76-00225 9-01 5D

ECHEVARRIA, J. E.
Organically Complexed Copper, Zinc, and Chelating Agents in Rivers of Western Puerto Rico,
W76-10292 9-19 5B

ECHEVIN, M.
Contribution to the Chemistry of Antarctic Snow: Trace Element Dosage by Neutron Activation,
W76-03729 9-08 2C

ECKENFELD, W. W. JR.
Comparison of Warburg and Marais Methods of Determining Oxygen Uptake Rate Constants,
W76-09189 9-17 5A

ECKENFELDER, W. W.
Coagulation of Textile Waste Water,
W76-12420 9-23 5D

ECKENFELDER, W. W. JR.
Nitrification Studies of Ship Channel Waters,
W76-09453 9-18 5D

Wastewater Treatment Design: Economics and Techniques, Part I,
W76-00224 9-01 5D

ECKERT, R. D.
Economic Framework for Groundwater Quality Monitoring,
W76-10657 9-20 5G

ECKERT, R. E. JR.
Influence of Vesicular Horizons on Watershed Management,
W76-06596 9-13 4D

ECKHOLM, E. P.
Desertification: A World Problem,
W76-06592 9-13 4C

Salting the Earth,
W76-04352 9-09 3C

ODLEMAN, W. L.
Method for Purifying the Liquor of a Galvanizing Process Plant After Contamination,
W76-04211 9-09 5D

ODY, A.
Optimal Sampling and Objective Analysis,
W76-06609 9-13 2B

ODY, W. H.
Recovery of Feldspar and Glass Sand from Georgia Waste Granite Fines,
W76-04073 9-09 5D

OE, A. N.
Ground Treatment Apparatus,
W76-08393 9-16 3F

OE, D. P.
Limestone Drainage Systems,
W76-03747 9-08 2F

OEL, H.
Pollution Controls -- Consultant's Role,
W76-12478 9-23 5G

OENS, C. D.
A Dual-Interval, Light-Activated Signal Generator--Its Application to Sediment Sampling,
W76-00543 9-02 2J

OENS, D.
A Comparative Study of Chemical Loadings of Acid and Non-Acid Tributaries of Cheat Lake, West Virginia,
W76-06213 9-13 5B

OGE, B. L.
Physical Model of Discharge in a Two-Layer Stratified Ambient,
W76-09963 9-18 8B

Summary: Technological Alternatives for Water Supply and Wastewater Disposal in the Coastal Area,
W76-11230 9-21 5E

OGERTON, A. T.
Development of a Prototype Airborne Oil Surveillance System, Final Report,
W76-09898 9-18 5A

OGERTON, B. R.
Reclamation of A Burned Anthracite Refuse Bank with Municipal Sludge,
W76-10249 9-19 5E

Revegetating Bituminous Strip-Mine Spoils with Municipal Wastewater, Part I: Grass and Legume Establishment,
W76-03821 9-08 5E

Revegetating Bituminous Strip-Mine Spoils with Municipal Wastewater, Part II: Quality the Leacheate and Spoil Chemical Changes,
W76-06343 9-13 5D

OGINGTON, D. N.
Distribution of Amorphous, Diatom Frustule, and Dissolved Silica in a Lead-210 Dated Core from Southern Lake Michigan,
W76-05883 9-12 5C

Distribution of Diatom Frustules in Lake Michigan Sediment Cores,
W76-05882 9-12 5C

The Distribution of Plutonium in Lake Michigan Sediments,
W76-05892 9-12 5B

Geochronology of Lake Michigan Sediments: Anomalies in Lead-210 Distributions,
W76-05885 9-12 5B

Miami River Watershed Project: Introduction,
W76-05886 9-12 5B

Plutonium Concentrations in Water and Suspended Sediment from the Miami River Watershed, Ohio,
W76-05887 9-12 5B

Plutonium in Aquatic Biota of the Great Miami River Watershed, Ohio,
W76-05888 9-12 5C

Stable Lead Geochronology of Fine-Grained Sediments in Southern Lake Michigan,
W76-05884 9-12 5B

EDINGTON, D. N.
Plutonium and Americium in Lake Michigan Sediments,
W76-08606 9-16 5C

EDLUND, L.
An Automatic Release Instrument with Underwater Buoy for Marking of Field Equipment,
W76-09268 9-17 7B

EDMISTER, T. D.
Spillway Gate Modification, Bonneville Dam, Columbia River, Oregon and Washington, Hydraulic Model Investigation,
W76-07792 9-15 8B

EDMOND, D. P.
A Critical Evaluation of the Nova Scotia Environmental Protection Act,
W76-07365 9-14 5G

EDMOND, J.
Chemical Dynamics of a Polluted Watershed, the Merrimack River in Northern New England,
W76-12833 9-24 5B

EDMONDS, C. R.
Fragipan Stability in Soil-Plant Effluent Disposal Systems,
W76-11104 9-21 2G

EDMONDS, P. R.
Some Terrestrial Considerations Associated with Cooling Tower Systems for Electric Power Generation,
W76-04821 9-10 5B

EDMONDS, R. J.
Preliminary Investigation of the Hydrologic Properties of Diatremes in the Hopi Buttes, Arizona,
W76-02239 9-05 4B

EDWARDS, A. G.
Adequate Formation Testing Can Reduce Completion Costs,
W76-03759 9-08 8G

EDWARDS, A. M. C.
Dissolved Load and Tentative Solute Budgets of Some Norfolk Catchments,
W76-00992 9-02 5B

The Variation of Dissolved Constituents with Discharge in Some Norfolk Rivers,
W76-00991 9-02 5B

EDWARDS, J.
Effect of Plume Residence on the Accumulation of Cs137 by Lake Michigan Salmonids,
W76-05902 9-12 5C

EDWARDS, J. H.
Nitrogen Flux into Corn Roots as Influenced by Shoot Requirement,
W76-11519 9-21 3F

EDWARDS, J. JR.
Observation of Linear Features in the Maryland Piedmont as Shown on ERTS-1 MSS Imagery and Aircraft Support Photography,
W76-09567 9-18 4A

EDWARDS, J. T.
Wichita Falls IMIS Project. Water Utility Processing System Application Evaluation Report,
W76-13040 9-24 3D

EDWARDS, K. W.
Toxic Heavy Metals in Ground Water of a Portion of the Front Range Mineral Belt,
W76-11105 9-21 5B

Toxic Heavy Metals in Groundwater of a Portion of the Front Range Mineral Belt,
W76-00274 9-01 5A

EDWARDS, L. L.
System Analysis of Refiner Mill Operation,
W76-05487 9-11 5D

EDWARDS, P.
An Assessment of Possible Pollution Effects Over a Century of the Benthic Marine Algae of Co. Durham, England,
W76-09595 9-18 5C

EDWARDS, R. W.
Aquatic Herbicides and the Control of Water Weeds,
W76-01911 9-04 5G

Population Dynamics and Production of Daphnia Hyalina in a Eutrophic Reservoir,
W76-11457 9-21 5C

EDWARDS, T. J.
An Ecological Evaluation of Thermal Discharge: Part VIII: Some Effects of Initial Operation of Detroit Edison's Monroe Power Plant on Fish Populations of Lake Erie's Western Shore Area,
W76-04578 9-10 5C

EDWARDS, W. A.
A Watershed Soils Index of Runoff Potential,
W76-01848 9-04 2G

EDWARDS, W. M.
Estimating Quantity and Quality of Runoff from Eastern Beef Barnlots,
W76-07193 9-14 5B

No-Tillage System Reduces Erosion from Continuous Corn Watersheds,
W76-01078 9-03 2J

EDYE, L. A.
The Annual Variation in Yield of Pastures in the Seasonally Dry Tropics of Queensland,
W76-06016 9-12 3F

EFENDIEV, O. F.
The Legal Setting of International Canals,
W76-12027 9-22 6E

EFENDIEVA, S. A.
Sorption Method for the Purification of Petroleum Containing Waste Waters (Sorbtsionnye netody ochistki neftesoderzhashchikh stochnykh vod),
W76-05489 9-11 5D

EFFER, W. R.
Thermal Discharge Studies on the Great Lakes-the Canadian Experience,
W76-08869 9-17 5G

EFROMSON, A. C.
Sampling Errors in the Quantification of Petroleum in Boston Harbor Water,
W76-10387 9-19 5A

EFTINK, B.
How to Plan and Manage a Lagoon,
W76-11052 9-20 5D

Models for Handling Solid Manure,
W76-01043 9-03 5E

EGAN, H.
Chemical Analysis and Environmental Quality,
W76-06308 9-13 5A

EGAN, J. T.
How Can You Cope With Shortages.
W76-00282 9-01 5F

EGAWA, T.
Process for Treating Waste Water Effluent Having Odours,
W76-00596 9-02 5D

EGBUNIWE, N.
Application of the Stanford Watershed Model to Nigerian Watersheds,
W76-10923 9-20 2A

Generation of Hourly Rainfall,
W76-02416 9-05 2B

Public Health Aspect of Tropical Water Resources Development,
W76-08096 9-15 5G

EGDORF, S. S.
Distribution of Stream Pollution in Lake Water,
W76-10712 9-20 5B

EGER, L. O.
Sanitary Waste Treatment Plant,
W76-09414 9-18 5D

EGGENER, C. L.
Network Models and the Impact of Modeling Assumptions,
W76-10196 9-19 4A

EGGIMANN, D. W.
Light Scattering and Suspended Particulate Matter on a Transect of the Atlantic Ocean at 11 Deg N,
W76-03895 9-08 2L

Physical, Chemical, and Optical Measures of Suspended-Particle Concentrations: Their Intercomparisons and Application to the West African Shelf,
W76-03887 9-08 2L

EGGLESTON, K. O.
Systems Simulation as a Tool for Water Resource Planning, Including Qualitative Aspects,
W76-12551 9-23 4A

EGGLISHAW, H. J.
An Experiment of Faster Growth of Salmon Salmo Salar (L.) in a Scottish Stream,
W76-01537 9-04 8I

EGLINTON, G.
Application of Real-Time Mass Spectrometric Techniques to Environmental Organic Geochemistry. I. Computerized High Resolution Mass Spectrometry and Gas Chromatography-Low Resolution Mass Spectrometry,
W76-09687 9-18 5A

EGOROV, V. N.
Mathematical Model of Sr90 Exchange Between Cystoseira and Marine Water,
W76-06899 9-14 5C

EGUCHI, T.
Ion-Exchange Group Bearing Composite Membranes,
W76-08211 9-16 3A

EHARA, L.
Desalination Process by Improved Multistage Electrodialysis,
W76-05980 9-12 3A

EHEART, J. W.
Two-Dimensional Water Quality Modeling and Waste Treatment Optimization for Wide, Shallow Rivers,
W76-13058 9-24 5B

EHLER, C. N.
Development of Residuals Management Strategies,
W76-12581 9-23 5G

EHLERS, W.
Soil Moisture Regime of Loessial Soils in Western Germany as Affected by Zero-Tillage Methods,
W76-07437 9-14 2G

Total Porosity and Pore Size Distribution in Untilled and Tilled Loess Soils, (In German),
W76-09939 9-18 2G

EHLERT, N.
Spray Runoff Disposal of Waste Stabilization Pond Effluent,
W76-03348 9-07 5D

Spray Runoff Disposal of Waste Stabilization Pond Effluent,
W76-04161 9-09 5D

EHLIG, C. F.
High Rate Sprinkling of a Low Intake Soil,
W76-01069 9-03 3F

EHLIN, U.
Swedish Studies on Combination Effects of Thermal Discharges in the Aquatic Environment, Some Aspects of Power Plant Siting Policy,
W76-09495 9-18 5C

EHRENBERGER, F.
Determination of Traces of Carbon in Solid and Liquid Wastes of Chemical Plants by Means of Thermal Conductivity Measurements (Bestimmung Von Spuren Kohlenstoff in Festen Und Fluessigen Abfallstoffen Der Chemischen Industrie Mit Hilfe Der Waermeleitfaehigkeitsmessung),
W76-08499 9-16 5A

EHRLICH, A. H.
Human Ecology. Problems and Solutions,
W76-00987 9-02 5C

EHRLICH, G. G.
Artificial Recharge Through a Well in Fissured Carbonate Rock, West St. Paul, Minnesota,
W76-08046 9-15 4B

EHRLICH, P. R.
Human Ecology. Problems and Solutions,
W76-00987 9-02 5C

EIBL, V.
Method and Apparatus for the Disinfection of Liquids by Anodic Oxidation and Preceding Reduction,
W76-02251 9-05 5F

EICHELBERGER, J. W.
Analysis of the Polychlorinated Biphenyl Problem, Application of Gas Chromatography-Mass Spectrometry with Computer Controlled Repetitive Data Acquisition from Selected Specific Ions,
W76-07709 9-15 5A

Analytical Quality Assurance for Trace Organics Analysis by Gas Chromatography/Mass Spectrometry,
W76-06648 9-13 5A

EICHELMANN, J. F.
Multiple Re-Use of Water,
W76-02816 9-06 5D

EICHENBERGER, E.
Experiments on the Effects of Inorganic Enrichment of Rivers on Periphyton Primary Production,
W76-08787 9-17 5C

Flow Velocity as a Rate Determining Factor for Self-Purification in Rivers (Uber Den Einfluss der Stromungsgeschwindigkeit auf die Selbstreinigung in Fliessgewaessern),
W76-09204 9-17 5F

EICHER, G. J.
Adaptation of Hydro Fish Facilities to Steam-Electric Stations,
W76-08654 9-16 8I

EICHERT, B.
HEC-5C, A Simulation Model for System Formulation and Evaluation,
W76-07149 9-14 6A

Hydrologic and Economic Simulation of Flood Control Aspects of Water Resources Systems,
W76-07148 9-14 4A

Sizing Flood Control Reservoir Systems by Systems Analysis,
W76-08085 9-15 4A

EICHHOLZ, G. G.
The Use of Activable Tracers in the Evaluation of the Performance of Wastewater Treatment Plants,
W76-07003 9-14 5A

EICKE, H. F.
A Method for the Rapid Enrichment and Determination of Silver-110m and Iodine-131 from Seawater,
W76-08624 9-16 5A

EIDE, O.
Marine Soil Mechanics,
W76-07321 9-14 8D

EIDEM, I.
Reasons for Having the IVL-Institute for Water and Air Pollution Control Research. (Varfor ett IVL-institut for vatten- och luftvardsforskning.),
W76-10853 9-20 5G

EIFER, I. Z.
Full-Scale Tests of an Installation for Purification of Viscose Production Effluents by Electroflotation (Proizvodstvennye ispytaniya ustanovki elektroflotatsionnoi ochistki stochnykh vod viskoznykh proizvodstv),
W76-10837 9-20 5D

Use of Electrodialysis in the Water Recycling System of Viscose Production (Primenenie elektrodializa v sisteme vodooborota viskoznogo proizodstva),
W76-10848 9-20 5D

GENBROD, K. D.
Analysis of the Pore Pressure Changes Following the Excavation of a Slope,
W76-03752 9-08 8D

GERMAN, M. R.
Trouble in Paradise,
W76-00625 9-02 5G

KENBERRY, S. E.
A Technique for Estimating the Time of Travel of Water in Indiana Streams,
W76-09138 9-17 4A

LER, H. O.
Comparative Effects of Two Modes of Cooling Water Discharge on Mississippi River Biota and Environmental Ecosystems,
W76-08888 9-17 5C

ISELE, P. J.
A Simple Dosing System for Continuous Stream Dosing,
W76-01908 9-04 7B

ISELE, W.
Pesticide and PCB Residue in Organs of Wild Animals as Indicators of Environmental Contamination, (In German),
W76-09922 9-18 5A

ISENHAUER, D. E.
Experience with a Spray-Runoff System for Treating Beef Cattle Feedlot Runoff.
W76-01026 9-03 5D

ISENHAUER, D. L.
Design of Integrated Approach to Nutrient Removal,
W76-12635 9-23 5D

ISENREICH, S. J.
A Simplified Phosphorus Analysis Technique,
W76-03705 9-08 5A

ISLER, R.
Second Annotated Bibliography on Biological Effects of Metals in Aquatic Environments,
W76-05863 9-12 5C

Toxic, Sublethal, and Latent Effects of Petroleum on Red Sea Macrofauna,
W76-00862 9-02 5C

Toxicities of Crude Oils and Oil-Dispersant Mixtures to Juvenile Rabbitfish, Siganus Rivulatus,
W76-02322 9-05 5C

EITTREIM, S. L.
Turbidity Distribution in the Deep Waters of the Western Atlantic Trough,
W76-03890 9-08 2L

Variations in Benthic Boundary Layer Phenomena: Nepheloid Layer in the North American Basin,
W76-03891 9-08 2L

EKERN, P. C.
Land Disposal of Wastewater in Hawaii,
W76-01557 9-04 5E

EKSHTAT, B. Y.
Hygienic Standardization of DD and DDB Compounds in Water Bodies, (In Russian),
W76-02406 9-05 5B

EL-AWADY, A. A.
Automated Method for the Determination of Total and Inorganic Mercury in Water and Waste Water Samples,
W76-04756 9-10 5A

EL-AZAB, E.
Ionic Leaf Accumulation in Grapes, Guava and Olive Plants as Affected by the Salinity of Irrigation Water,
W76-06030 9-12 3C

EL-GOHARY, F. A.
Conditioning Improves Sludge Filterability,
W76-09181 9-17 5D

EL-HADI, N. D. A.
Longitudinal Dispersion for Flow Over Rough Beds,
W76-10921 9-20 5B

EL-HASSAN, A. A.
The Importance of the Effect of the Chemical Composition of Water on the Population of Snails: Intermediate Hosts of Schistosomes in Egypt,
W76-06763 9-13 5C

EL-HATTAB, A. H.
Effect of Irrigation Regimes in Relation to Chlorcholine Chloride (CCC) Application on Wheat,
W76-06279 9-13 3F

EL-KIKE, F. E.
Hydrogeological Conditions of Al-Hamad Area, Iraq,
W76-09068 9-17 2F

EL-SABH, M. I.
Surface Circulation Pattern in the Gulf of St. Lawrence,
W76-08126 9-16 2L

EL-SAYED, S. Z.
Primary Production and the Factors Controlling Phytoplankton Growth in the Antarctic Seas,
W76-08942 9-17 5C

EL-SHAARAWI, A.
Relationship Between Various Bacterial Populations and Coprostanol and Cholesterol,
W76-06336 9-13 5C

EL-SWAIFY, S. A.
Determining Both Water Characteristics and Hydraulic Conductivity of a Soil Core at High Water Contents from a Transient Flow Experiment,
W76-09271 9-17 2G

Effect of Saline Water Irrigation on N.Co310 and H50-7209 Cultivars of Sugarcane: II. Chemical Composition of Plants,
W76-06274 9-13 3C

ELAGINA, T. S.
Production of Planktonic Crustaceans of Two Secondary Oligotrophic Lakes, (In Russian),
W76-06301 9-13 5C

ELAM, J.
Membrane Evaporator/Sublimator Investigation,
W76-02538 9-06 3A

Membrane Humidity Control Investigation,
W76-02539 9-06 3A

Membrane Water Deaerator Investigation,
W76-02541 9-06 5F

ELANGO, K.
Studies on a Well Penetrating a Two-Aquifer System,
W76-00401 9-01 8B

ELBOUSHI, I. M.
Amount of Water Needed to Initiate Flow in Rubbly Rock Particles,
W76-03746 9-08 2G

ELDER, F. C.
Assessment of the Effects of Waste Heat Inputs on Water Budgets of the Great Lakes,
W76-11305 9-21 5C

Determination of the Aerodynamic Drag Coefficient from Wind Set-Up,
W76-11437 9-21 2H

IFYGL Chemical Intercomparisons,
W76-11430 9-21 2H

Preliminary Energy Budget of Lake Ontario for the Period May Through November, 1972,
W76-11433 9-21 2H

ELDER, J. A.
A Conceptual Representation of the New York Bight Ecosystem,
W76-08411 9-16 5B

ELDER, J. F.
Application of Energy-Dispersive X-Ray Fluorescence to Trace Metal Analysis of Natural Waters,
W76-02510 9-06 5A

Complexation Side Reactions Involving Trace Metals in Natural Water Systems,
W76-03411 9-07 2K

ELEMER, P.
Legal Framework of Co-Operation in the Field of Water Management Between Hungary and Her Neighboring Countries,
W76-05759 9-12 6E

ELENKOVA, N. G.
Polarographic Determination of Arsenic in Industrial and Drainage Waters (Polyarograficheskoe opredelenie mysh'yaka v promyshlennykh i stochnykh vedakh),
W76-03068 9-07 5A

ELEUTERIUS, C. K.
Phase II: Hydrology,
W76-09240 9-17 2L

ELEUTERIUS, L. N.
Phase IV: Biology,
W76-09242 9-17 2L

ELEY, R. L.
The Role of Physical Modeling in Marsh-Estuarine Mineral-Cycling Research,
W76-10276 9-19 5B

ELIK, Z. YE.
Stabilizing the Purified Waters Generated by the Etching Shops for their Utilization in the Reverse Cycle (Stabilizatsiya ochishchennykh promyvnykh vod travil'nykh otdeleniy dlya ispol'zovaniya v oborotnom tsikle),
W76-02304 9-05 5D

ELKAN, G. H.
Bacterial Flora of Saline Aquifers,
W76-01254 9-03 5A

ELKEI, O.
Applicability of the Technicon Autoanalyzer I and II Systems for Shipboard Analysis of Great Lakes Water Samples,
W76-10497 9-19 5A

ELKERN, K. F.
Self-Contained Water Treatment System,
W76-03519 9-08 5F

ELLENBERG, H.
Vegetational Strata in Perhumid and Perarid Regions of the Tropical Andes, (In German)
W76-09083 9-17 2I

ELLIOT, P. B.
Interstitial Protozoa and Algae of Louisiana Salt Marshes,
W76-09593 9-18 5C

ELLIOTT, G. E. P.
Treatment of Electroplating Waste Waters by a Flotation Technique,
W76-02973 9-06 5D

ELLIOTT, J. A.
Horizontal Coherence of Temperature Microstructure,
W76-01259 9-03 2L

ELLIOTT, J. J.
Measurement and Characterization of Nonvolatile Hydrocarbons in Ocean Water,
W76-10394 9-19 5B

Toxic Effects of Oil Discharged from Ships,
W76-12380 9-23 5C

ELLIOTT, J. T.
Disposal Alternatives for Intermittent Sand Filter Scrapings Utilization and Sand Recovery,
W76-12219 9-23 5D

ELLIOTT, L. F.
Pollution Abatement from Cattle Feedlots in Northeastern Colorado and Nebraska,
W76-02762 9-06 5D

Soil Water Nitrate Beneath a Broad-Basin Terraced Feedlot,
W76-03981 9-08 5B

ELLIOTT, M.
Intertidal Fauna of the Industrialized Forth Estuary,
W76-11818 9-22 5C

ELLIOTT, R. A.
New Waste Water Practices in Dairy Plants,
W76-01647 9-04 3E

ELLIOTT, R. D.
Large Scale Effects of Cloud Seeding,
W76-06562 9-13 3B

ELLIOTT, R. G.
Handling and Disposal of Bleach Plant Effluents,
W76-11383 9-21 5D

ELLIOTT, S. T.
Comparative Effectiveness of the Standard Surber Sampler and a Hydraulic Modification for Estimating Bottom Fauna Populations,
W76-05613 9-12 7B

ELLIOTT, W. P.
Fine-Scale Time Variations of Rainfall in Western Oregon,
W76-12209 9-23 2B

ELLIS, B. G.
A Mathematical Model for Phosphorus Movement in Soils,
W76-03802 9-08 5B

ELLIS, D. F.
Nitrogen and Phosphorus Losses from Winter Disposal of Dairy Manure,
W76-08159 9-16 5C

ELLIS, D. V.
A Technique for Measurement of Wood-Fiber Deposits Around Pulp-Mill Outfalls,
W76-04765 9-10 5A

ELLIS, D. W.
Floods in Palatine Quadrangle, Illinois,
W76-07116 9-14 7C

ELLIS, J.
An Evaluation of the Miller Method for Dissolved Oxygen Analysis,
W76-12144 9-22 5A

ELLIS, J. R.
The Nitrogen Status Beneath Beef Cattle Feedlots in Eastern Nebraska,
W76-01381 9-03 5B

Physical and Chemical Properties of Outdoor Beef Cattle Feedlot Runoff,
W76-10543 9-20 5B

Quality Variation of Feedlot Runoff in Storage,
W76-10549 9-20 5B

ELLIS, K. V.
A Study of Rotating-Disc Treatment Units Operating at Different Temperatures,
W76-09674 9-18 5D

ELLIS, R. H.
A Method for Applying Research to Environmental Planning and Management: A Case Study of Issues Important to the Chesapeake Bay Region,
W76-05434 9-11 6B

ELLIS, R. JR.
Interactions of Mercury with Aquatic and Edaphic Environments,
W76-05601 9-12 5B

ELLIS, S. R.
Hydrologic Characteristics of Lagoons at San Juan, Puerto Rico, During a January 1974 Tidal Cycle,
W76-07597 9-15 5B

ELLNER, S.
Split Stream Ultraviolet Purification Device,
W76-09058 9-17 5D

ELLYETT, C. D.
A Review of the Potential Applications of Remote Sensing Techniques to Hydrogeological Studies in Australia,
W76-02534 9-06 7B

ELMALEH, S.
Representation of Macroscopic Flow in an Aeration Basin by a Cascade Formed by Two Unequal Perfect Mixers (Representation De L'Ecoulement Macroscopic Dans un Bassin D'Aeration Par une Cascade De Deux Melangeurs Parfaits Inegaux),
W76-01778 9-04 5D

ELMARAGHY, M. A.
Studies on the Toxicity of Ammonia, Nitrate and Their Mixtures to the Common Guppy,
W76-10811 9-20 5C

ELMGREN, K. I.
Pore Water Pressure Measuring Device,
W76-06477 9-13 2G

ELMGREN, R.
Benthic Meiofauna as Indicator of Oxygen Conditions in the Northern Baltic Proper,
W76-01945 9-04 5B

ELORANTA, P.
Influence of Effluents of Sulfite Cellulose Factory on Algae in Cultures and Receiving Waters,
W76-00045 9-01 5C

ELORANTA, V.
Influence of Effluents of Sulfite Cellulose Factory on Algae in Cultures and Receiving Waters,
W76-00045 9-01 5C

ELOUBAIDY, A. F.
Hydrogeological Conditions of Al-Hamad Area, Iraq,
W76-09068 9-17 2F

ELSHAZLY, M. A.
Zero Discharge to the Environment of Difficult Wastewaters,
W76-06341 9-13 5D

ELSTON, J.
Rainfall Trends in the West African Sahel,
W76-09269 9-17 2B

ELVERS, D.
Identification and Mapping of Fishing Banks on the Outer Continental Shelf of the Gulf of Mexico,
W76-12228 9-23 6G

ELWOOD, J. W.
Effects of Temperature on Food Ingestion Rate and Absorption, Retention, and Equilibrium Burden of Phosphorus in a Aquatic Snail, Goniobasis Claveaformis Lea,
W76-03036 9-07 5C

ELY, N.
Boundaries of Seabed Jurisdiction off the Pacific Coast of Asia,
W76-11897 9-22 6E

ELY, R. B.
Catalyzed Process and Catalyst Recovery,
W76-05064 9-11 5D

A Two-Step Process for Toxic Wastewaters,
W76-07746 9-15 5D

ELZEFTAWY, A.
Hydraulic Conductivity Calculations for Unsaturated Steady-State and Transient-State Flow in Sand,
W76-02932 9-06 2G

EMANUELLI, C. C.
Canadian Approach to the Third Law of the Sea Conference,
W76-07364 9-14 6E

EMBERGENOV, S.
Macrozoobenthos of Water Bodies of the Khazarasp Region of the Khorezm Oblast, (In Russian),
W76-10476 9-19 2H

EMERGY, A. T.
Process for Electrolysis of Brine,
W76-09053 9-17 5D

IERSON, F. C.
River Quality and Industrial Adjustment: A Case Study,
W76-00039 9-01 5G

IERSON, G. G.
A Fail-Safe Subaqueous Concrete Sewer,
W76-02171 9-05 8F

MERSON, R. R.
Preliminary Investigations of the Effects of Resuspended Sediment on Two Species of Benthic Polychaetes from Los Angeles, Harbor,
W76-11799 9-22 5C

MERSON, S.
Chemically Enhanced C02 Gas Exchange in a Eutrophic Lake: A General Model,
W76-05635 9-12 5C

Gas-Exchange Rates in a mall Lake as Determined by the Radon Method,
W76-04219 9-09 5B

MERY, K. O.
Offshore Oil: Technology - And Emotion,
W76-11090 9-20 5G

MERY, P. A.
Analog Model Study of the Hydrology of the San Luis Valley, South-Central Colorado,
W76-03403 9-07 4B

MERY, R. M.
The Ecological Behavior of Plutonium and Americium in a Freshwater Ecosystem: Phase II, Implications of Differences in Transuranic Isotopic Ratios,
W76-07480 9-15 5C

MERY, W. J.
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W76-09720 9-18 2L

MILIANI, F.
New Methods for Ecological Analysis of Microorganisms of Eutrophic Waters, (In Spanish),
W76-08252 9-16 5A

MMERSON, D. W.
The Long Hard Road to the Effluent-Free Pulp Mill,
W76-08698 9-16 5D

MMETT, R. C.
When to Use Continuous Filtration Hardware,
W76-03201 9-07 5D

MMETT, W. W.
The Channels and Waters of the Upper Salmon River Area, Idaho,
W76-03405 9-07 2E

MPAIN, A.
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W76-09986 9-18 5C

MRICH, G. H.
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W76-11642 9-22 5D

MSELLEM, Y.
Construction and Utilization of Complex Mathematical Models in the Planning of the Optimal Development of Large Hydrographic Systems and River Basins,
W76-12566 9-23 4A

Options of Development and Integrated Management of Water Resources,
W76-12538 9-23 6B

ENAKI, G. A.
Seston of the Kiev Water Reservoir and Quantitative Ratios of Its Components, (In Russian),
W76-12302 9-23 5C

ENFIELD, C. G.
Comparison of Two Predictive Nonequilibrium One-Dimensional Models for Phosphorus Sorption and Movement Through Homogeneous Soils,
W76-08677 9-16 5B

Fate of Wastewater Phosphorus in Soil,
W76-03250 9-07 5B

Kinetic Model For Orthophosphate Reactions in Mineral Soils,
W76-02073 9-05 5D

Phosphorus Model of Muskegon Wastewater System,
W76-07011 9-14 5B

Steady-State Method of Measuring Unsaturated Hydraulic Conductivity,
W76-09924 9-18 2G

ENGBERG, R. A.
Water Resources Data For Nebraska, 1974: Part 2. Water Quality Records,
W76-02656 9-06 7C

Water Resources of Pierce County, Nebraska,
W76-07598 9-15 4A

ENGEL, D. W.
Effects of Temperature, Copper and Chlorine on Fish During Simulated Entrainment in Power-Plant Condenser Cooling Systems,
W76-08878 9-17 5C

ENGEL, W. T.
Self-Monitoring Procedures: Basic Laboratory Skills (164.6) Student Reference Manual,
W76-12377 9-23 5A

ENGELBERT, C. D.
Sediment Yield from Southwest Idaho Rangeland Watersheds,
W76-01086 9-03 2J

ENGELBERT, E. A.
Discussion (Of, 'Interdisciplinary Approach to Geothermal Development,' by M. K. Fulcher),
W76-00071 9-01 4B

ENGELBRECHT, R. S.
Aerobic Thermophilic Treatment of High Strength Wastewaters,
W76-11204 9-21 5D

R and D Priorities on the National Agenda for Water Pollution Control,
W76-01733 9-04 5G

Thermophilic Microbiological Treatment of High Strength Wastewaters with Simultaneous Recovery of Single Cell Protein,
W76-06293 9-13 5D

ENGELMANN, F.
Environmental Regulation of the Annual Reproductive Season of Strongylocentrotus Purpuratus (Stimpson),
W76-10888 9-20 5C

ENGELSTAD, O. P.
Yield-Nutrient Absorption Relationships as Affected by Environmental Growth Factors,
W76-10184 9-19 2I

ENGESET, J.
Model Sand Filters for the Removal of Colloidal Manganese Oxides Using Selected Cations as Filter Aids,
W76-00111 9-01 5F

ENGLAND, C. B.
Root Depth as a Sensitive Parameter in a Deterministic Hydrologic Model,
W76-01846 9-04 2I

ENGLEMAN, R. L.
Sediment Yield from Southwest Idaho Rangeland Watersheds,
W76-01086 9-03 2J

ENGLERT, T. L.
Hudson River Striped Bass Life Cycle Model,
W76-08634 9-16 5C

ENGLISH, J. N.
Water Reclamation and Reuse, (Literature Review),
W76-12677 9-24 5D

ENGLUND, J. O.
Weathering and Hydrogeology of the Brumunddal Sandstone, Southern Norway,
W76-06676 9-13 2F

ENGRAM, E. T.
Shale Chiseling-Effect on Water Yield,
W76-06924 9-14 3B

ENIGK, K.
The Destruction of Parasitic Resistant Stages in Sludge by Irradiation with Low Accelerating Voltage Electrons (Die Vernichtung Parasitaerer Dauerformen im Klaerschlamm Durch Bestrahlung mit Niederenergetischen Elektronen),
W76-03346 9-07 5D

ENIS, R.
Planning for Water Recreation in Israel,
W76-12959 9-24 6B

ENKIRI, N. K.
A Forced Aeration System for Composting Wastewater Sludge,
W76-11200 9-21 5E

ENNIS, G. L.
Periphytic and Planktonic Algae of the Lower Fraser River in Relation to Water Quality Conditions,
W76-10504 9-20 5C

ENNIS, G. P.
Food, Feeding, and Condition of Lobsters, Homarus Americanus, Throughout the Seasonal Cycle in Bonavista Bay, Newfoundland,
W76-04017 9-09 2I

ENNS, K.
Reduction of Toxicity of Aqueous Solutions,
W76-02992 9-06 5D

ENNS, T.
A Thermodynamic Model for Steady State Metabolism of Phytoplankton, Part I. Theory,
W76-08944 9-17 5C

ENO, J.
Breakthrough in Sewage Treatment-A User's View,
W76-00202 9-01 5D

ENO, J. M.
Washington Sewage Works: Design and Operation,
W76-03717 9-08 5D

ENOMOTO, H.
Recovery and Reuse of Tin-Nickel Alloy Pyrophosphate Plating Solution by the Combination of Reverse Osmosis and Ion Exchange (Gyaku-shinto ho, ion kokanho no kumiawase ni yoru suzu-nikkeru gokin pirorinsan mekki eiki no kaishu oyobi saishiyo),
W76-04037 9-09 5D

ENTWISTLE, J. E.
The Electrolytic Processing of Cyanide Wastes,
W76-08706 9-16 5D

ENZ, J. W.
Climate of Minnesota, Part VIII--Precipitation Patterns in the Minneapolis-St. Paul Metropolitan Area and Surrounding Counties,
W76-00504 9-02 2B

EPIFANIO, C. E.
Toxicity of Ammonia, Nitrite Ion, Nitrate Ion, and Orthophosphate to Mercenaria Mercenaria and Crassostrea Virginica,
W76-12237 9-23 5C

EPLER, P.
Ichthyofauna of Certain Rivers in Southern Poland,
W76-02405 9-05 5B

EPP, C.
Experience with a Pilot Plant for the Irradiation of Sewage Sludge, Experiments on the Inactivation of Viruses in Sewage Sludge after Radiation Treatment,
W76-09549 9-18 5D

EPPLEY, R. W.
Chlorine Reactions with Seawater Constituents and the Inhibition on Photosynthesis of Natural Marine Phytoplankton,
W76-08946 9-17 5C

Dynamics of Phosphorus Cycling in the Euphotic Waters of the Central North Pacific Ocean,
W76-08939 9-17 5C

Photosynthetic Measurements in the Central North Pacific: The Dark Loss of Carbon in 24-Hour Incubations,
W76-08940 9-17 5C

Physiological Ecology of Gonyaulax Polyedra, a Red Water Dinoflagellate Off Southern California,
W76-08936 9-17 5C

EPPS, J. A.
Pavement Cracking in West Texas Due to Freeze-Thaw Cycling,
W76-12452 9-23 2C

EPSTEIN, B. D.
Gulf General Atomic Phenol Monitor,
W76-03531 9-08 5A

EPSTEIN, E.
Effect of Sewage Sludge on Some Soil Physical Properties,
W76-06331 9-13 5E

A Forced Aeration System for Composting Wastewater Sludge,
W76-11200 9-21 5E

Trench Incorporation of Sewage Sludge in Marginal Agricultural Land,
W76-02072 9-05 5D

ERDMAN, H. E.
The Influence of Hardness Components (CA2+ and MG2+) in Water on the Uptake and Concentration of Cadmium in a Simulated Freshwater Ecosystem,
W76-10346 9-19 5C

EREMENKO, E. V.
Application of Mathematical Modelling to Water Quality Formation Processes for Operative Management of Complex Water Resources Systems,
W76-12547 9-23 5G

ERHARDT, M.
Hydrocarbons in Blue Mussels from the Kiel Bight,
W76-10408 9-19 5B

ERICKSEN, N. J.
Landslide Hazard in the United States: A Research Assessment,
W76-09781 9-18 6F

ERICKSON, G. A.
Comparison of Ecological Impacts of Postulated Oil Spills at Selected Alaskan Locations. Volume I. Introduction, Summary, Methodology, Evaluation and Appendices,
W76-12379 9-23 5C

ERICKSON, G. M.
Experimental Well Field is Put to Many Uses,
W76-05569 9-12 8G

ERICKSON, L. E.
Identification of Parameters in Transient Water Quality Models from Stochastic Data,
W76-07395 9-14 5G

Motionless Mixers Improve Oxygen Transfer Efficiencies, Part I,
W76-01556 9-04 5D

Transport Rate of Cod Through a Wet Porous Stratum - Measurement of Diffusivity in Cattle Manure Solution,
W76-12352 9-23 5B

ERICKSON, M.
Phenolic and Chlorophenolic Oligomers in Chlorinated Pine Kraft Pulp and in Bleach Plant Effluents,
W76-12475 9-23 5D

ERICKSON, P. A.
Quabbin Reservoir: A Study of Drought and Water Demand,
W76-04682 9-10 4A

ERICKSON, R. E.
Phenols in the Clark Fork River,
W76-03136 9-07 5B

ERICSON, D. W.
Water Resources of the Lake of the Woods Watershed, North-Central Minnesota,
W76-07115 9-14 7C

Water Resources of the Mississippi and Sauk Rivers Watershed, Central Minnesota,
W76-05428 9-11 7C

ERIKSSON, C.
Mercury Uptake in Rooted Higher Aquatic Plants; Laboratory Studies,
W76-09111 9-17 5C

ERIKSSON, E.
A Model for Water and Phosphorus Distribution on the Island of Goeteborg, (In Swedish),
W76-10963 9-20 5B

Nuclear Techniques in Hydrological Studies,
W76-09996 9-18 2F

ERIKSSON, G.
Applied Research for RO and UF,
W76-04217 9-09 5D

ERIKSSON, L.
The Fiberlog, a New Monitor for Fibrous Effluents,
W76-10843 9-20 5A

ERIKSSON, S.
On the Coexistence of Scavengers on Shallow Sandy, Bottoms in Gullmar Fjord (Sweden), Adaptations to Substratum, Temperature, and Salinity,
W76-12704 9-24 5C

ERLEY, D.
Performance Controls for Sensitive Lands: A Practical Guide for Local Administrators,
W76-01871 9-04 6F

ERMAN, D. C.
Upstream Changes in Fish Populations Following Impoundment of Sagehen Creek, California,
W76-10619 9-20 2I

ERNEST, L. A.
Reclamation of Gas Turbine Waste Heat for Sludge Drying,
W76-11268 9-21 5D

ERSKINE, H. L.
Recovering Bitumen from Large Water Surfaces,
W76-05992 9-12 5G

ERTSGAARD, B. L.
High Rate Sprinkling of a Low Intake Soil,
W76-01069 9-03 3F

ERWIN, R. W.
Heat Exchangers and Evaporators,
W76-07433 9-14 3A

Heat Exchangers and Evaporators, (1),
W76-04606 9-10 5D

Heat Exchangers and Evaporators, (2),
W76-04607 9-10 5D

ESCALLIER, G.
Practical Application of the Germicidal Power of Ultraviolet Irradiation to Drinking-water, (In French),
W76-09646 9-18 5F

ESCH, G. W.
Effects of Thermal Effluent on the Population Dynamics of Helminth Parasites in Largemouth Bass,
W76-03477 9-07 5C

Population Ecology of Parasites in Turtles from Thermally Altered and Natural Aquatic Communities,
W76-03491 9-07 5C

ESCHBACH, E. A.
Joint USA/Japan Project on Global Systems Analysis and Simulation (GLOSAS) of Energy, Resources, and Environmental (ERE) Systems,
W76-09610 9-18 6A

EN, I. I.
A Stochastic Model for Predicting the Probability Distribution of the Dissolved-Oxygen Deficit in Streams,
W76-12276 9-23 5B

MOND, S. E.
Municipal Wastewater Reclamation--An Industrial Water Supply,
W76-05318 9-11 5D

The Removal of Metals from Wastewaters by Chemical Treatment and Filtration,
W76-11271 9-21 5D

SPINOSA, R.
The Development of a Simple Waste Treatment System for U.S. Naval Vessels,
W76-10256 9-19 5D

STABLIER, R.
Hydrography and Phytoplankton from the Bay of Cadiz, from January of 1970 to December of 1973, (In Spanish),
W76-12309 9-23 5A

The Mercury Concentration in Eels (Anguilla Anguilla) from the Estuary of the Guadalquivir River and 'Esteros' of Salines of Cadiz Bay, (In Spanish),
W76-12321 9-23 5C

STEP, E. E.
Porous Cathode Cell for Metals Removal from Aqueous Solutions,
W76-03533 9-08 5D

STEP, M.
Evidence for the Occurrence of Specific Iron (III)-Binding Compounds in Near-Shore Marine Ecosystems,
W76-01101 9-03 5B

STES, G. O.
Genotype Variation in Nutrient Uptake Efficiency in Corn,
W76-13134 9-24 3F

STOQUE, M. A.
Numerical Simulation of Japan Sea Effect Snowfall,
W76-10930 9-20 2C

SVELT, L. A.
Industrial Cost Recovery and User Charge Assessments,
W76-05813 9-12 5G

TKIN, V. S.
Problems of Calculating the Thermal Radiation of Multilayered Structures of the Ice and Snow Types by Means of Oriented Graphs Using an Electronic Computer,
W76-04324 9-09 2C

TO, Y.
Decolorization of Night Soil Treatment Plant Effluent by Ozone (Ozon ni yoru shinyo shorisui no dasshoku),
W76-09026 9-17 5D

TTELT, G. A.
Dissolved Air Floatation System,
W76-05976 9-12 5D

TTLICH, W. F.
Transport of Concentrates and Sludges,
W76-11660 9-22 5E

TZEL, J. E.
Detergent Phosphate Ban Yields Little Phosphorus Reduction, Part I,
W76-03235 9-07 5A

Detergent Phosphate Ban Yields Little Phosphorus Reduction, Part I,
W76-05637 9-12 5C

Detergent Phosphate Ban Yields Little Phosphorus Reduction, Part II,
W76-06345 9-13 5G

Detergent Phosphate Ban Yields Little Phosphorus Reduction, Part III,
W76-06346 9-13 5G

ETZOLD, D. J.
Development of Regional Water Management Systems Operational Procedures,
W76-11329 9-21 6E

EU, J. K-T.
Water Pollution Monitoring Using Matched Spatial Filters,
W76-09194 9-17 5A

EULER, G.
Electronic Computation of Quantities and Costs for Sewerage Systems Construction (Massenermittlung und Kostenberechnung im Kanalisationsbau mit elektronischen Datenverarbeitungsanlagen),
W76-00796 9-02 5D

EURE, H. E.
Effects of Thermal Effluent on the Population Dynamics of Helminth Parasites in Largemouth Bass,
W76-03477 9-07 5C

EVANS, B. R.
Experience in Treating Scouring Effluents,
W76-05297 9-11 5D

EVANS, D.
Development of a Mathematical Model of Infiltration which Includes the Effects of Raindrop Impact,
W76-08844 9-17 2G

EVANS, D. D.
Crust Strength and Cracking: Part I. Strength,
W76-00522 9-02 2G

The Influence of Soil Crusts on Heat and Water Storage,
W76-00524 9-02 2G

Variability of Infiltration Characteristics and Water Yield of a Semi Arid Catchment,
W76-02742 9-06 2G

EVANS, D. T.
Selector Systems in Recording Physiological and Behavioral Activity in Sedentary Aquatic Animals,
W76-06039 9-12 2I

EVANS, E. C.
The Need for More Intercomparable Field Data and Widely Applicable Short-Term Survey,
W76-10358 9-19 5G

EVANS, E. D. JR.
Legal Aspects of Tidal Boundaries of the Coastal Zone,
W76-03626 9-08 6E

EVANS, F. L. III.
Tertiary Treatment for Phosphorus Removal at Ely, Minnesota Awt Plant, April, 1973 thru March, 1974.
W76-12863 9-24 5D

EVANS, G. H.
Diatom Community Response to Variations in Effluent Concentration,
W76-08835 9-17 5C

EVANS, G. N.
The Influence of Local Advection on Evapo-Transpiration from Irrigated Rice in a Semi-Arid Region,
W76-00713 9-02 2D

EVANS, G. R.
Hutton's Shearwaters Initiating Local Soil Erosion in the Seaward Kaikoura Range,
W76-11518 9-21 2J

EVANS, J. C.
Grapevine Response to Furrow and Trickle Irrigation,
W76-06032 9-12 3F

EVANS, J. C. W.
Unique Process for Sulfite Spent Liquor Keeps Older Mill Viable,
W76-10871 9-20 5D

EVANS, N. A.
Transmountain Water Diversion for the High Plains,
W76-00181 9-01 6D

EVANS, P. M.
Distribution, Morphometry, and Seasonal Biology of the Planktonic Copepods, Neocalanus Robustior and N. Gracilis, in the Pacific Ocean,
W76-08951 9-17 5C

Nutrient Regeneration by Oceanic Zooplankton: A Comparison of Methods,
W76-08950 9-17 5C

EVANS, R. A.
Long-Term Variability in the Structure of Subtidal Benthic Communities in Puget Sound, Washington, USA,
W76-03173 9-07 5C

EVANS, R. J.
Cascade Passes Avalanche Atlas, Part I: Chinook, Cayuse, White and Snoqualmie Passes,
W76-04318 9-09 7C

Methods of Avalanche Control in Washington Mountain Highways--Summary Report,
W76-01492 9-03 2C

Methods of Avalanche Control on Washington Highways, Fourth Annual Report,
W76-02546 9-06 2C

EVANS, R. L.
Some Water Quality Aspects in a Nascent Impoundment in Central Illinois,
W76-10950 9-20 5B

EVANS, R. R.
Equipment for Dewatering Waste Streams,
W76-03227 9-07 5D

EVANS, R. S.
Anaerobic Digestion: The Rate-Limiting Process and the Nature of Inhibition,
W76-05784 9-12 5D

EVANS, R. W. G.
Wastewater Treatment Worldwide,
W76-03714 9-08 5D

EVANS, S.
On the Coexistence of Scavengers on Shallow Sandy, Bottoms in Gullmar Fjord (Sweden),

EVANS, S.

Adaptations to Substratum, Temperature, and Salinity,
W76-12704 9-24 5C

EVANS, T. M.
Development of a Rapid and Simple Test for Bacteriological Water Quality Utlizing Limulus Lysate,
W76-00174 9-01 5A

EVANS, W. C.
Chemical Characteristics of the Major Thermal Springs of Montana,
W76-12293 9-23 2K

EVANS, W. E.
ESIAC: A Data Products System for ERTS Imagery (Time-Lapse Viewing and Measuring),
W76-02056 9-05 7C

Study of Time-Lapse Processing for Dynamic Hydrologic Conditions,
W76-02713 9-06 4A

EVANS, W. F.
A Facility for the Biological Treatment of a Complex Chlorophenolic Waste,
W76-01648 9-04 5D

EVENSON, D. E.
A Conceptual Representation of the New York Bight Ecosystem,
W76-08411 9-16 5B

EVERARDO, ACEVES, N.
Response to Three Semidwarf Mexican Wheats to Different Aeration Conditions in the Rooting Medium at a Constant Salinity Level,
W76-00710 9-02 3C

EVERETT, H. W.
The Economic Impact of Controlling Nonpoint Pollution in Hardwood Forestland,
W76-11697 9-22 5G

EVERETT, J.
Appendices to: Survey Study to Select a Limited Number of Hazardous Materials to Define Amelioration Requirements,
W76-01902 9-04 5A

EVERETT, L. G.
Development of a Methodology for Monitoring Groundwater Quality,
W76-10658 9-20 5A

The Effect of Development on Groundwater in the Parker Strip,
W76-02236 9-05 5B

EVERETT, R.
Governmental Control of Land Use in Arizona (Preliminary Draft),
W76-00183 9-01 6A

EVERS, H.
Device for the Continuous Treatment of Liquid Streams,
W76-05033 9-11 5D

EVERS, R. H.
Mixed-Media Filtration of Oily Waste Waters,
W76-05307 9-11 5D

EVERSON, T. C.
Protein Production From Acid Whey Via Fermentation,
W76-04741 9-10 5D

EVERY, V.
Recent Developments in Tannery Effluent Disposal,
W76-12425 9-23 5D

EVILEVICH, M. A.
Intensification of Biological Purification of Effluents (Intensifikatsiya biologicheskoi ochistki stokov),
W76-11391 9-21 5D

Purification of Waste Water from Paper Industry,
W76-06971 9-14 5D

EVSTIGNEEV, G. G.
Increase of Primary Production in a Bay of Malyi Zhemchuzhnyi Island (North Caspian) Using Inorganic Fertilizers, (In Russian),
W76-11553 9-21 5C

EVSTIGNEEV, I. A.
Photometric Method for the Control of Suspended Solids in Sedimentation Tanks (Fotometricheskii metod kontrolya vzveshennykh veshchestv v otstoinikakh),
W76-11390 9-21 5A

EVTIKOVA, L. V.
Effect of Ammonium Lignosulfonate on Soil Microorganisms (O vliyanii lignosul'fonata ammoniya na pochvennye mikroorganizmy),
W76-02464 9-05 5C

EWEL, K. C.
Aspects of Mineral-Nutrient Cycling in a Southern Mixed-Hardwood Forest in North Central Florida,
W76-10318 9-19 5B

EWING, L.
Design Criteria for Microscreening Biological Wastewater Plant Effluents,
W76-10232 9-19 5D

EWING, L. J.
Water Factory 21 is the Future,
W76-05782 9-12 5F

EWING, M.
Turbidity Distribution in the Deep Waters of the Western Atlantic Trough,
W76-03890 9-08 2L

EYE, J. D.
Tannery Waste Management, (Literature Reviews),
W76-12423 9-23 5D

EYGENSON, A. S.
Basic Trends in the Improvement of Water Supply, Sewer and Waste Water Treatment Systems at Petroleum Processing Plants (Osnovnyye napravleniya v sovershenstvovanii sistem vodosnabzheniya, kanalizatsii i ochistki stokov NPZ),
W76-07521 9-15 5D

EYLES, R. J.
Stream Channel Measurements in New Zealand,
W76-03856 9-08 7A

EYMAN, L. D.
The Availability of 137-CS to Fishes from Ingested Clays,
W76-09118 9-17 5C

FABJAN, C.
The Purification of Galvanic and Other Waste Waters by the Ozonization Method (Die Reinigung Galvanischer und Anderer Abwasser nach dem Ozoniser-Verfahren),
W76-05287 9-11 5D

FABOS, J. G.
Modelling the Dynamic Response of Floodplains to Urbanization in Southeastern New England,
W76-02865 9-06 4C

FABRIS, G. J.
Trace Metals in Melbourne Rivers-An Interlaboratory Analysis,
W76-01770 9-04 5A

FADIAH, Z.
Ionic Leaf Accumulation in Grapes, Guava and Olive Plants as Affected by the Salinity of Irrigation Water,
W76-06030 9-12 3C

FADRUS, H.
Nitrate Determination With Indigo Carmine,
W76-00021 9-01 5A

Suppression of Iron (III) Interference in the Determination of Iron (II) in Water by the 1,10-Phenanthroline Method,
W76-03169 9-07 5A

FAGAN, C.
Innocent Passage: An Historical and Analytical Perspective,
W76-03620 9-08 6E

FAGERHOLM, H. -R.
The Effects of Ferry Traffic on the Rocky Shore Macrofauna in the Southern Aland Archipelago: I. The Cladophora Zone,
W76-01950 9-04 5C

FAGGIOLI, R.
Commentary on: Future Prospects for Law of the Sea: Comments on Caracas and Prediction for the Future,
W76-07349 9-14 6E

FAHY, E.
Eutrophication of a Partially Enclosed Estuarine Mudflat,
W76-11811 9-22 5C

FAIN, G.
The Design of a Marine Environmental Simulation System,
W76-03643 9-08 5B

FAIRBANK, W. C.
An Analysis of Dairy Waste Management Alternatives for Southern California Dairymen,
W76-10534 9-20 5G

On the Horns of the Dairy Waste Dilemma,
W76-05175 9-11 5D

FAIRBANKS, W. C.
Dairy Waste Storage Ponds for Soil-Plant Recycling,
W76-04421 9-09 5D

FAIRBOURN, M. L.
Effect of Coal Mulch on Crop Yields,
W76-11926 9-22 3F

FAIRCHILD, B. T.
Computational Methods Applicable to the Coupled VTE/MSF Distillation System,
W76-06253 9-13 3A

FAIRWEATHER, V.
What's New in Water Treatment.
W76-01561 9-04 5F

FAIZEV, K.
Planting Shrubs and Half-Shrubs in Moisture Storing Furrows, (In Russian),
W76-07288 9-14 4A

LAYI, O.
Relationships Between the Hydraulic Conductance of Surface Crusts and Soil Management in a Typic Hapludalf,
W76-03366 9-07 2G

LCKE, C. O.
Benefits from Water Pollution Abatement, Property Values,
W76-10580 9-20 5G

LCO, J. W.
Determination of Dissolved Gases in Water by Diffusion and Gas Chromatographic Techniques,
W76-02427 9-05 5A

The Role of Physical Modeling in Marsh-Estuarine Mineral-Cycling Research,
W76-10276 9-19 5B

LKE, J. D.
Effects of Thermal Effluent on the Fat Content of the Mosquito Fish,
W76-03467 9-07 5C

LKENMARK, M.
The Baltic Sea--A Semi-Enclosed Sea, As Seen by the Hydrologist,
W76-08130 9-16 2L

LL, B. A.
Construction and Stabilization of Coastal Foredunes with Vegetation: Padre Island, Texas,
W76-11752 9-22 2L

LLAH, M. H.
Literature Review: Movement of Spilled Oil at Sea,
W76-10599 9-20 5B

Random Model of Evaporation of Oil at Sea,
W76-11462 9-21 5B

LTER, J. M.
Dairy Waste Management Alternatives,
W76-00434 9-01 5D

LVEY, H. T.
Prediction of Wind Wave Heights,
W76-07229 9-14 8B

N, L.
Motionless Mixers Improve Oxygen Transfer Efficiencies, Part I,
W76-01556 9-04 5D

N, L. T.
Analysis and Optimization of a Multi-Effect Multi-Stage Flash Distillation System,
W76-06802 9-14 3A

Identification of Parameters in Transient Water Quality Models from Stochastic Data,
W76-07395 9-14 5G

Transport Rate of Cod Through a Wet Porous Stratum - Measurement of Diffusivity in Cattle Manure Solution,
W76-12352 9-23 5B

N, P.
Sources and Sediment Yield of Hawaiian Watershed and Coastal Sediments,
W76-02369 9-05 2J

NDRY, C. B.
A Simple Topographic Model of Gulf Stream Separation,
W76-06689 9-13 2L

FANG, H. H. P.
Evaluation of New Reverse Osmosis Membranes for the Separation of Toxic Compounds From Wastewater, Second Annual Summary Report,
W76-00512 9-02 5D

Removal of Pesticides by Reverse Osmosis,
W76-01223 9-03 5D

Reverse Osmosis Separation of Polar Organic Compounds in Aqueous Solution,
W76-09165 9-17 5D

FANGMEIR, D. D.
Soluble Salts and Nitrate Distribution in Irrigated Lettuce Beds,
W76-08763 9-17 3C

FANNIN, K. F.
Airborne Coliphages from Wastewater Treatment Facilities,
W76-12921 9-24 5A

An Assessment of the Airborne Emission of Selected Viruses by Wastewater Treatment Facilities,
W76-12678 9-24 5A

FANNIN, P. J.
Clearing up Thinking on Pollution Laws,
W76-05316 9-11 5G

FANNING, K. A.
Processes Affecting the Concentration of Silica at the Sediment-Water Interface of the Atlantic Ocean,
W76-00304 9-01 2L

FANNON, R. D.
Field Research and Testing of a Water Hand Pump for use in Developing Countries,
W76-10086 9-19 8G

FANNON, R. D. JR.
Interim Report on Development of a Hand Operated Water Pump for Developing Countries,
W76-00420 9-01 8C

FANSLER, F. I. JR.
Aeration-Stabilization Waste Treatment: A Case History,
W76-02472 9-05 5D

FANT, G. C.
Water Pollution Control in Alaska: The Alaska Environmental Conservation Act of 1971,
W76-04340 9-09 5G

FARBER, M.
Water Pollution Control Act of 1972, Economic Impacts, Pulp and Paper Industry,
W76-10559 9-20 5G

FARELL, C.
Numerical Calculation of the Wave Integrals in the Linearized Theory of Water Waves,
W76-07565 9-15 8B

Surface Roughness Effects on the Mean Flow Past Circular Cylinders,
W76-02402 9-05 8B

FARKAS, D. F.
Reduced-Water Cleaning of Tomatoes,
W76-04734 9-10 3E

FARKAS, G. L.
Valyl tRNA's of Anacystis Nidulans,
W76-08827 9-17 5C

FARLEY, D. E.
Water Soluble Block Polymers Used as Silt Control Agents,
W76-02991 9-06 5F

FARLEY, S.
Acute Toxicity of Certain Pesticides to Acartia Tonsa Dana,
W76-11193 9-21 5C

FARLOW, J. O.
Enhanced Growth and Increased Body Size of Turtles Living in Thermal and Post-Thermal Aquatic Systems,
W76-03482 9-07 5C

FARMER, D.
Dispersion of Dyed Sea-Water Discharged from Moving Vessels in Coastal Waters,
W76-11086 9-20 5B

FARMER, D. M.
Penetrative Convection in the Absence of Mean Shear,
W76-04957 9-10 2H

Potential Temperatures in Deep Freshwater Lakes,
W76-01477 9-03 2H

FARMER, G. S.
Water-Recycle Washing of Refined Soybean Oil: Plant Scale Evaluation,
W76-08171 9-16 3E

FARMER, R. C.
Development of a Three-Dimensional Time-Dependent Flow Field Model,
W76-08328 9-16 2L

FARNES, P. E.
Summary of Snow Survey Measurements for Montana, 1922-1974,
W76-00291 9-01 7C

FARO, R. C.
Pretreatment Provides Constant Effluent Quality,
W76-07513 9-15 5D

FAROOQUI, R.
Nearshore Currents and Water Temperatures Along the North Shore of Lake Ontario Between Pickering and Cobourg,
W76-11302 9-21 2H

FARR, I. S.
Improved Methods for the Measurement of Dissolved and Particulate Organic Carbon in Fresh Water and Their Application to Chalk Streams,
W76-07428 9-14 5A

FARR, T.
Handling and Disposal of Bleach Plant Effluents,
W76-11383 9-21 5D

FARR, W. E.
Mechanical Operation of Horizontal Traveling Screen Model VII,
W76-08649 9-16 8I

Traveling Screens for Turbine Intakes of Hydroelectric Dams,
W76-08647 9-16 8I

FARRAN, M.
Growth Response of the Green Algae Chlorella Vulgaris to Selective Concentrations of Zinc,
W76-03307 9-07 5C

FARRELL, C. A. JR.
Disposal of Marine Sewage: An Environmental Management Standard for Naval Ships,
W76-01828 9-04 5G

FARRELL, D. A.
The Effect of Soil Crusts on Infiltration: The Effect of Aggregate Size and Depth of Tillage on Steady Infiltration Through Crust-Topped Tilled Soils,
W76-00539 9-02 2G

A Field Study of Soil Water Depletion Patterns in Presence of Growing Soybean Roots: I. Determination of Hydraulic Properties of the Soil,
W76-02933 9-06 2G

FARRELL, D. F.
Water Resources of the Cedar River Watershed, Southeastern Minnesota,
W76-07117 9-14 7C

FARRELL, J. B.
The Effect of Incineration on Metals, Pesticides, and Polychlorinated Biphenyls in Sewage Sludge,
W76-03845 9-08 5D

Elemental Analysis of Wastewater Sludges from 33 Wastewater Treatment Plants in the United States,
W76-05080 9-11 5D

Interim Report on Task Force on Phosphate Removal Sludges,
W76-00248 9-01 5D

Methods for Reducing the Infection Hazard of Waste-Water Sludge,
W76-09514 9-18 5D

Overview of Sludge Handling and Disposal,
W76-07241 9-14 5E

Thickening Characteristics of Aluminum and Iron Primary Sewage Sludges,
W76-07243 9-14 5E

FARRELL, J. P.
Use of High-Power Electron Beam Radiation for the Treatment of Municipal and Industrial Wastes,
W76-09537 9-18 5D

FARRELL, P. J.
Combined Treatment of Domestic and NSSC Mill Effluents,
W76-03999 9-08 5D

FARRELL, R. P. JR.
Pressure Sewer System,
W76-02181 9-05 5D

Process and Equipment for Automatic Chemical-Biological Wastewater Treatment with Provisions for Recycle and Reuse,
W76-05955 9-12 5D

FARRINGTON, J. W.
Analyses of Hydrocarbons in Marine Organisms: Results of Idoe Intercalibration Exercises,
W76-10398 9-19 5A

Analysis of Hydrocarbons in Marine Organisms: Results of IDOE Intercalibration Exercises,
W76-01901 9-04 5A

Evaluation of Some Methods of Analysis for Petroleum Hydrocarbons in Marine Organisms,
W76-00320 9-01 5A

Idoe-5 Intercalibration Sample: Results of Analysis After Sixteen Months Storage,
W76-10399 9-19 5A

FARRIS, H. R.
Pivot Sprinkler,
W76-11829 9-22 3F

FARVOLDEN, R.
Planning for the Rehabilitation of Gravel Pits,
W76-08087 9-15 4A

FASSBENDER, H. W.
Possibilities of Waste Water Irrigation in Forests (Moeglihckeiten der Abwasserverreiselung in Waldbestaenden),
W76-00366 9-01 5D

FASSELL, W. M.
Wet Oxidation Process for Waste Material,
W76-03518 9-08 5D

FAST, A.
A Close-Interval Fractionator for Sediment Cores,
W76-01720 9-04 2J

FAST, A. W.
Hypolimnion Oxygenation,
W76-11454 9-21 5G

FAST, S. G.
Environment Protective Oil Skimming and Removal Apparatus,
W76-09048 9-17 5G

FAUCONNIER, J.-M.
The Application of 'Biotic Indices' to the Study of Pollution in a River with Cyprinidae, (In French),
W76-11580 9-21 5A

FAUKE, A. R.
Use of Polymeric Quaternary Ammonium Betaines as Water Clarifiers,
W76-05544 9-12 5F

FAUSAK, L. E.
Development of a Boat and Helicopter Deployable Oil Slick Sampler,
W76-09892 9-18 5A

FAUST, C. R.
Simulation of Water-and Vapor-Dominated Hydrothermal Reservoirs,
W76-00087 9-01 2A

FAUST, M. A.
Phosphorus Flux and Cycling in Estuaries,
W76-08689 9-16 5C

FAUST, S. D.
A New Convenient Method for Determining Arsenic(+3) in Natural Waters,
W76-08027 9-15 5A

FAVA, J. A. JR.
Chlorinated Sewage Effluents and Avoidance Reaction of Stream Fish,
W76-01523 9-04 5C

FAYARD, L. D.
Surface-Water Resources of the Tangipahoa, Tchefuncta, and Natalbany River Basins, Southeastern Louisiana,
W76-08056 9-15 4A

FAYOSE, E. A.
Ecology of the Ogun River Estuary, Nigeria,
W76-07411 9-14 2L

FAZZOLARE, R.
Feasibility Study of a Nuclear Power-Sewage Treatment System for the Conservation and Reclamation of Water Resources,
W76-10614 9-20 5D

Water Consumption and Power Plant Heat Rejection,
W76-00758 9-02 3E

FAZZOLARE, R. A.
Water Resource Alternatives for Power Generation in Arizona,
W76-02243 9-05 3E

FEACHEM, R. G.
Water Supplies for Low-Income Communities in Developing Countries,
W76-01004 9-03 5G

Water Supplies for Low-Income Communities in Developing Countries,
W76-03114 9-07 5F

FEAR, J. V. D.
Method of Reducing Sludge Accumulation from Tar Sands Hot Water Process,
W76-05965 9-12 5D

FEATES, F. S.
Radiation Treatment of Wastes, A Review,
W76-09517 9-18 5D

FEATHER, T. V.
Anomalous Diurnal Patterns of Stem Xylem Water Potentials in Larrea Tridentata,
W76-10172 9-19 2

FEDDES, R. A.
Finite Difference and Finite Element Simulation of Field Water Uptake by Plants,
W76-12830 9-24 2G

FEDERER, C. A.
Evapotranspiration,
W76-00702 9-02 2D

FEDORENKO, A. Y.
Feeding Characteristics and Predation Impact of Chaoborus (Diptera, Chaoboridae) Larvae in a Small Lake.
W76-12752 9-24 2H

FEDORENKO, Z. P.
Standardization of the Content of Benzo(a)-Pyrene in Water Bodies, (In Russian),
W76-10351 9-19 5C

FEDOROV, E. A.
Morphological Characteristics of the Crucian Carp of the Kairak-Kum Reservoir, (In Russian),
W76-00357 9-01 2

FEDOROV, K. N.
Micromorphology of Hydromorphic Soils of Irrawaddy River Delta, (In Russian),
W76-07273 9-14 2C

FEDOROV, V. D.
Relation Between Generation Time and Biomass of Phytoplankton, (In Russian),
W76-11577 9-21 5C

Strategy of Biological Monitoring, (In Russian),
W76-05301 9-11 5A

FEDOROVA, G. V.
The Patterns of 14C Accumulation and Removal in Freshwater Fishes, (In Russian),
W76-11561 9-21 5C

)OTOVA, L. V.
ccumulation of Cs137 by Industrial Fish Spe-es in the Casplan Sea,
'76-06891 9-14 5C

he Effect of Some Metals on Primary Produc-on in the Coastal Water of the Caspian Sea, n Russian),
'76-07313 9-14 5C

)YANINA, V. N.
ygienic Standardization of DD and DDB ompounds in Water Bodies, (In Russian),
'76-02406 9-05 5B

E, E. J.
he Importance of Diurnal Variation of hotosynthesis vs. Light Curves to Estimates f Integral Primary Production,
'76-06210 9-13 5C

E, R. J.
low, No Odor Waste Handling,
'76-01376 9-03 5D

ELY, R. A.
ight-Scattering Measurements and Chemical nalysis of Suspended Matter in the Near-Bot-om Nepheloid Layer of the Gulf of Mexico,
'76-03894 9-08 2L

IGE, W. A.
An Alternative Septage Treatment Method: Lime Stabilization/Sand-Bed Dewatering,
W76-02759 9-06 5D

IGNER, K. D.
Development of Water Quality Management In-dices,
W76-07152 9-14 5G

Mathematical Model Studies of Water Quality n the Potomac Estuary,
W76-01497 9-03 5B

IMSTER, E. L.
Snow Water Equivalent Surveys of the Souris River Basin,
W76-06665 9-13 2C

Soil Moisture Survey Experiment at Luverne Minnesota, Date of Survey: May 12, 1975,
W76-06663 9-13 2G

Soil Moisture Survey Experiment at Phoenix, Arizona, Date of Survey: March 18, 1975,
W76-06664 9-13 2G

INGOLD, H.
Determining the Concentration of Oil in Water Samples by Infrared Spectrophotometry. Phase II. Interlaboratory Study. Volume II,
W76-09900 9-18 5A

Determining the Concentration of Oil in Water Samples by Infrared Spectrophotometry. Phase II. Interlaboratory Study. Volume III,
W76-09901 9-18 5A

INSTEIN, A.
Ecological Base-Line Study of the Fish of the Anclote Anchorage,
W76-02019 9-05 5C

IT, D. M.
Great Lakes Wind Forecasts Based on Model Output Statistics,
W76-11434 9-21 2H

EKETE, G.
The Role of Inland Navigation in River Basin Development,
W76-05511 9-12 4A

FELDMAN, A. D.
Systems Approach for the Planning and Management of the Morava River Basin, Yugoslavia,
W76-11886 9-22 4A

Use of the Computer Program 'STORM' for Analysis of the Quantity and Quality of Urban Storm Water Runoff,
W76-09740 9-18 5B

FELDMAN, C. R.
Instrumental Analysis of Chemical Pollutants, Training Manual,
W76-02395 9-05 5A

FELDMAN, L.
A Guide to the Selection of Cost-Effective Wastewater Treatment Systems,
W76-09772 9-18 5D

FELDMAN, M. H.
Environmental Trace Materials: Computer Coupled Radioactivation Analysis,
W76-12712 9-24 5A

Some Mechanisms of Weathering of Petroleum Hydrocarbons on Marine Waters: Competitive Pathways to Fate and Disposition of Petroleum Pollution,
W76-11010 9-20 5B

FELDMAN, S. L.
A Reconsideration of the 'Requirement Approach' to Residential Water Use Forecasting,
W76-04964 9-10 6D

Socioeconomic Factors Affecting Domestic Water Demand in Israel,
W76-04556 9-10 6D

FELDT, L. E.
Storm Induced Relationships Among Chemical Conditions and Phytoplankton in Saginaw Bay and Western Lake Huron,
W76-11282 9-21 5C

FELLER, S. M.
Wastewater Solids Separation,
W76-00271 9-01 5D

FELS, M.
Ultrafiltration Offers 'Good' Removal of Color, COD, BOD,
W76-07522 9-15 5D

FELTON, C.
Use of the 'Trust Doctrine' for Wetlands Protection,
W76-12047 9-22 6E

FENG, S. Y.
The Effect of Temperature and Salinity on the Heart Beat of Crassostrea Verginica,
W76-03029 9-07 5C

FENN III, R. W.
Method for Treating Sewage Water,
W76-08394 9-16 5D

FENSTERSTOCK, J. C.
Use of Environmental Analyses on Wastewater Facilities by Local Government,
W76-05072 9-11 5D

FEODORFF, A.
Water Economy of a Soil on Weathered Granite Under a Spruce Grove, (In French),
W76-06728 9-13 2G

FERENS, M. C.
Effects of Thermal Effluent on Populations of Mosquito Fish,
W76-03479 9-07 5C

FERGUSON, C.
Occurrence of Foraminifera, Molluscs and Ostracods Adjacent to the Industrialized Shoreline of Canso Strait, Nova Scotia,
W76-07621 9-15 5C

FERGUSON, H. F.
Method and Apparatus for Processing Refuse, Sewage and/or Waste Material into a Source of Energy,
W76-02214 9-05 5D

FERGUSON, H. L.
The Atmospheric Budgets Program of IFYGL,
W76-11436 9-21 2H

Monthly Evapotranspiration Estimates for the Canadian Land Portion of the Lake Ontario Basin During the IFYGL,
W76-11297 9-21 2D

FERGUSON, J. F.
Chemical Forms of Arsenic in Water Supplies and Their Removal,
W76-00109 9-01 5F

The Fate of Nutrients in Back River,
W76-05625 9-12 5C

FERGUSON, R. I.
Meander Irregularity and Wavelength Estimation,
W76-00550 9-02 2E

FERGUSON, R. L.
Microbial ATP and Organic Carbon in Sediments of the Newport River Estuary, North Carolina,
W76-08687 9-16 5C

FERGUSON, T. L.
Guidelines for the Disposal of Small Quantities of Unused Pesticides,
W76-01875 9-04 5D

FERNANDEZ, C. G.
The Mercury Content of Industrial Fish Products: Its Relative Variation with the Treatment (Cooking in Salt Water, Pickling and Fish Production), (In Spanish),
W76-09802 9-18 5C

FERNANDEZ, D.
Major Water Law Systems: A Comparative Study of the United States and Spain,
W76-12056 9-22 6E

FERNANDEZ DEL RIEGO, A.
Distribution of Lignin in Waters of the Lourizan Inlet as a Measure of Contamination Due to Dumping of Lignosulfonic Liquors Resulting from Production of Chemical Pulp (La distribuction de la lignina en aguas de la ensenada de lourizan, comomedida de la contaminacion a causa del vertido de lejuas ligninsulfonicas, procedentes de la fabricacion de pasta de celulosa),
W76-05733 9-12 5G

FERNANDEZ, J. G. M.
Effecto De La Temperatura De Aclimatacion Sobre La Proliferacion De Precursores Eritropoyeticos En Carassius Auratus, (The Effect of Acclimation Temperature on Proliferation of Erythropoietic Precursors in Carrassius Auratus and on the Uptake of Tritiated

Thymidine in Haematopoietic and Intestinal Tissue),
W76-09509 9-18 5C

FERNANDOPULLE, D.
Water Resources of Volcanic Islands, a Pilot Project in the Canaries,
W76-01258 9-03 2A

FERRAL, R. L.
Forecasts for the Sacremento River System,
W76-09967 9-18 2E

A Generalized Streamflow Simulation System, Conceptual Modeling for Digital Computers,
W76-06634 9-13 2A

FERRANTE, J. G.
Characterization of Limnetic Zooplankton Phosphorus Excretion and Factors Affecting Temporal Excretion Rates in the Phosphorus Cycle in a Lake,
W76-07675 9-15 5C

Role of Copepod Fecal Pellets in the Vertical Transport of Freshwater Diatoms,
W76-05880 9-12 5C

Vertical Transport of Particulate Material in Lake Michigan by the Lorica of Codonella Cratera,
W76-05881 9-12 5C

FERRAR, T.
Effluent Charges, Environmental Quality and Other National Goals: A Qualification,
W76-03268 9-07 5G

FERRAR, T. A.
An Economic Investigation of Tax Policies for Controlling Effluent Discharge,
W76-04535 9-10 5G

Financial Incentives and Pollution Control. A Case Study,
W76-03270 9-07 5G

The Political Economy of Effluent Charges,
W76-06228 9-13 5G

A Rationale for a Corporate Air Pollution Abatement Policy,
W76-01619 9-04 5G

Residual Charges and Profits,
W76-03267 9-07 5G

FERRARI, I.
Density and Biomass of Phytoplankton Populations in an Apennine Lake (Lake Santo Parmense) During the Winter Freeze, (In Italian),
W76-07316 9-14 5C

FERREIRA, R. F.
An Introduction to the Processes, Problems, and Management of Urban Lakes,
W76-01588 9-04 2H

FERRERE, F.
Effects of Gamma Irradiation on the Degradation of Dyes,
W76-09532 9-18 5D

FERRIS, J. J.
A Description of the Trophic Status and Nutrient Loading for Lake George, New York,
W76-05638 9-12 5C

FERRY, D. M.
Orientation of Clay Particles as it Relates to Crusting of Soil,
W76-04097 9-09 2G

FERSTERRA, G.
Studies Concerning Improvement of Waste Water Treatment in the Nickel Plant Aue (Untersuchungen Zur Verbesserung Der Abwasserbehandlung in Der Nickelhuette Aue),
W76-07755 9-15 5D

FERTL, W. H.
Method for Detecting and Locating Water-Producing Zones and/or Water Thief Zones in Subterranean Formations,
W76-07448 9-14 4B

New Log Data Give Better North Sea Well Completions,
W76-03524 9-08 4B

FESTA, J. F.
A Two-Dimensional Numerical Model of Estuarine Circulation: The Effects of Altering Depth and River Discharge,
W76-10948 9-20 2L

FETT, R. W.
Island Barrier Effects on Sea State as Revealed by a Numerical Wave Model and DMSP Satellite Data,
W76-09559 9-18 2L

FETTER, C. W. JR.
Hydrogeology of the South Fork of Long Island, New York,
W76-08347 9-16 2F

Use of Test Wells as Water-Quality Predictions,
W76-01768 9-04 5A

FEUERSTEIN, D. L.
Input of Petroleum to the Marine Environment Directly from the Atmosphere,
W76-05138 9-11 5B

Ocean Outfall Disposal Systems,
W76-11226 9-21 5D

Treatment of Combined Sewer Overflows by Dissolved Air Flotation,
W76-02074 9-05 5D

FEUILLADE, J.
Continuous Cultures Applied to Ecological Research, (In French),
W76-06782 9-13 5C

Physico-Chemical Parameters of the Hydrographic System of Lake Nantua: Relation with Oscillatoria, (In French),
W76-11575 9-21 5C

FEUILLADE, M.
Continuous Cultures Applied to Ecological Research, (In French),
W76-06782 9-13 5C

FEUSNER, J.
Ground-Water Levels, 1968-1972,
W76-00887 9-02 7C

FFOLLIOTT, P. F.
Characterization of Snowmelt Runoff Efficiencies,
W76-02871 9-06 2C

Describing Snowpacks in Arizona Mixed Conifer Forests with a Storage-Duration Index,
W76-02744 9-06 2C

Distribution of Ponderosa Pine Forest Densities on the Salt-Verde River Basin,
W76-09477 9-18 4A

Measuring Snow Cover from ERTS Imagery on the Black River Basin,
W76-02756 9-06 2C

Snowmelt Runoff Efficiencies on Arizona Watersheds,
W76-02866 9-06 2C

Snowmelt Runoff Efficiencies on Arizona Watersheds,
W76-03581 9-08 3B

Vegetation Management for Water and Range Improvement,
W76-06598 9-13 3B

Water Quality of Streamflow from Ponderosa Pine Forest Watersheds on Sedimentary Soils,
W76-11490 9-21 5A

Water Yield Improvement by Vegetation Management: Focus on Arizona,
W76-08539 9-16 3B

FIBLY, R.
An Integrated Study on the Impact of Metallic Trace Element Pollution in the Coeur D'Alene-Spokane Rivers-Lake Drainage System,
W76-11488 9-21 5C

FICALBI, A.
A Simple Physicochemical Method of Detecting Traces of Surfactants in Water,
W76-09927 9-18 5A

FICKE, J. F.
Design of Nationwide Water-Quality-Monitoring Networks,
W76-09209 9-17 5A

Design of Nationwide Water-Quality Monitoring Networks,
W76-10643 9-20 5A

Water Temperature-Influential Factors, Field Measurement, and Data Presentation,
W76-02494 9-05 2K

FICKEISEN, D. H.
Aquatic Physiology of Thermal and Chemical Discharges,
W76-08880 9-17 5C

A Comparative Evaluation of the Weiss Saturometer,
W76-03774 9-08 5A

Effect of Temperature on Tolerance to Dissolved Gas Supersaturation of Black Bullhead, Ictalurus Melas,
W76-12727 9-24 5C

FICKEN, J. H.
U.S. Geological Survey Water Quality Monitor, Operations Manual,
W76-11080 9-20 5A

FIDGEON, S.
An Investigation of Antibiotic and Drug Residues in Fish,
W76-09124 9-17 5C

FIDLER, R. E.
Digital Model Simulation of the Glacial-Outwash Aquifer at Dayton, Ohio.
W76-04409 9-09 2F

Water-Level Records for the San Luis Valley of Colorado, 1972-76,
W76-07129 9-14 7C

FIDMAN, B. A.
Measurement of the Structure of River Flow,
W76-06180 9-13 2E

DLER, I.
xperience with a Pilot Plant for the Irradiation Sewage Sludge, Analytical Studies on ewage Sludge and Plant Material,
'76-09552 9-18 5D

LD, E. G.
orrosion Control by Cathodic Protection,
'76-00619 9-02 5D

LD, R.
ow to Analyze Infiltration/Inflow,
'76-00566 9-02 5D

filtration--Inflow Analysis,
'76-02170 9-05 5D

rban Runoff and Combined Sewer Overflow, Literature Review),
'76-12627 9-23 5D

rban Runoff Pollution Control Program Overiew: FY'76,
'76-12857 9-24 5G

LD, R. I.
ive Stormwater Pollutants the Spin,
'76-09461 9-18 5D

LDING, L.
ewer Inspection: Checking it Out,
V76-09460 9-18 8G

RING, M.
Examination of the Concept and Use of the Standard Project Flood,
V76-08321 9-16 8B

RING, M. B.
Application of Systems Analysis Models to the Problem of Conjunctive Use of Surface and Groundwater in the Vega of Granada,
W76-00818 9-02 4B

Models for Groundwater Analysis,
W76-00816 9-02 4B

Simulation Models for Conjunctive Use of Surface and Groundwater,
W76-00817 9-02 4B

ERSTINE, H. L.
A Study of the Effects of Stream Channelization and Bank Stabilization on Warmwater Sport Fish in Iowa: Subproject 5: Effects of Long-Reach Stream Channelization on Distribution and Abundance of Fishes,
W76-12230 9-23 4C

Warm Water Stream Alteration in Iowa: Extent, Effects on Habitat, Fish, and Fish Food, and Evaluation of Stream Improvement Structures (Summary Report),
W76-12235 9-23 4C

LACHIONE, E. M.
Effect of Flocculants on the Sedimentation of Organic Solids in Tannery Unhairing Effluents,
W76-08164 9-16 5D

LATKINA, T. A.
Production of Planktonic Crustaceans of Two Secondary Oligotrophic Lakes, (In Russian),
W76-06301 9-13 5C

LATOW, B. N.
Recovery of Chemicals from Sulfite Waste Liquors by Means of Electrodialysis (Chemikalienrueckgewinnung Aus Sulfitablaugen Mit Der Methode Der Elektrodialyse),
W76-07654 9-15 5D

FILE, D. M.
Quantitative Determination of Asbestos Fiber Concentrations,
W76-12899 9-24 5A

FILHO, J. M.
Water Resources Management for Part of the Lower Gila Valley,
W76-02678 9-06 3F

FILIMONOVA, Z. I.
Baytex Effect on Some Representatives of the Kareliam ASSR Hydrofauna, (In Russian),
W76-02899 9-06 5C

FILION, L.
Zonation of Snow Conditions in Forest-Tundra, Hudson Bay, New Quebec, (In French),
W76-08759 9-17 2C

FILIP, D. S.
Disposal Alternatives for Intermittent Sand Filter Scrapings Utilization and Sand Recovery,
W76-12219 9-23 5D

Intermittent Sand Filters for Upgrading Lagoon Effluents,
W76-00257 9-01 5D

Intermittent Sand Filtration to Upgrade Lagoon Effluents--Preliminary Report,
W76-07051 9-14 5D

FILIPPOV, A. M.
Model Investigations of Ice Entrainment Beneath Edge of an Cover Ice.
W76-07790 9-15 2C

FILIPPOV, G. N.
Full-Scale Tests of an Installation for Purification of Viscose Production Effluents by Electroflotation (Proizvodstvennye ispytaniya ustanovki elektroflotatsionnoi ochistki stochnykh vod viskoznykh proizvodstv),
W76-10837 9-20 5D

FILIPPOV, P. I.
Hygienic Assessment of Changes in Mineral Water Properties During its Treatment for Use in Internal Balneotherapeutic Procedures, (In Russian),
W76-09795 9-18 5C

FILISTOVICH, V. R.
Role of Groundwaters in Redistribution of Solar Radiation by a Phytocenosis, (In Belorussian),
W76-08665 9-16 2I

FILLOS, J.
Phosphate Release and Sorption by Lake Mohegan Sediments,
W76-12512 9-23 5C

FILOTTI, A.
Optimization of Water Resources Development Projects in Case of Inadequate Hydrologic Data,
W76-11971 9-22 6A

FINA, L. R.
Demand Bactericide for Disinfecting Water and Process of Preparation,
W76-08391 9-16 5D

FINCH, H. J.
The Operation of a Simplex Activated Sludge Pilot Plant in an Atmosphere of Pure Oxygen,
W76-09669 9-18 5D

The Operation of a Simplex Activated Sludge Pilot Plant in an Atmosphere of Pure Oxygen, Part 2,
W76-12665 9-23 5D

FINCH, J.
Solution of the Operating Problems of a Modern Sewage Treatment Plant,
W76-09455 9-18 5D

FINDENEGG, I.
The Effect of Measures Reducing Eutrophication on the Phytoplankton of the Reither Sea in Tyrol (Austria), (In German),
W76-07308 9-14 5C

FINGER, S.
Determining the Concentration of Oil in Water Samples by Infrared Spectrophotometry. Phase II. Interlaboratory Study. Volume II,
W76-09900 9-18 5A

Determining the Concentration of Oil in Water Samples by Infrared Spectrophotometry. Phase II. Interlaboratory Study. Volume III,
W76-09901 9-18 5A

FINK, D. H.
Freeze-Thaw Effects on Soils Treated for Water Repellency,
W76-02743 9-06 2C

Laboratory Evaluation of Water-Repellent Soils for Water Harvesting,
W76-02225 9-05 3B

FINKLE, P. Z. R.
The International Commission for the Northwest Atlantic Fisheries: An Experiment in Conservation,
W76-03929 9-08 6E

FINLAY, L. W.
Protection of the Marine Environment,
W76-11982 9-22 5G

FINLEY, J. S.
Analytical Techniques for Isolating and Quantifying Petroleum Paraffin Hydrocarbons in Marine Organisms,
W76-10406 9-19 5A

Interagency Investigations of a Persistent Oil Spill on the Washington Coast. Animal Population Studies, Hydrocarbon Uptake by Marine Organisms, and Algae Response Following the Grounding of the Troopship General M.C. Meigs,
W76-09324 9-17 5C

Long-Term Chemical and Biological Effects of a Persistent Oil Spill Following the Grounding of the General M. C. Meigs,
W76-00139 9-01 5C

Uptake and Loss of Petroleum Hydrocarbons by the Mussel, Mytilus Edulis, in Laboratory Experiments,
W76-03656 9-08 5A

FINLEY, W. W.
Sprinkler Evaporation Losses in the Southern Plains,
W76-13004 9-24 3F

FINN, A. A.
Small-Craft Harbors: Design, Construction, and Operation,
W76-02548 9-06 8A

FINNEY, B. C.
Correlation of Radioactive Waste Treatment Costs and the Environmental Impact of Waste Effluents in the Nuclear Fuel Cycle for Use in Establishing as Low as Practicable Guides-Fabrication of Light-Water Reactor Fuels Containing Plutonium,
W76-12694 9-24 5C

FINNEY, C. D.
Anaerobic Digestion: The Rate-Limiting Process and the Nature of Inhibition,
W76-05784 9-12 5D

FINNIGAN, R. A.
Indian Treaty Analysis and Off-Reservation Fishing Rights: A Case Study,
W76-11902 9-22 6E

FINSTEIN, M. S.
Concentrations of Nitrifying Bacteria in Sewages, Effluents, and a Receiving Stream and Resistance of These Organisms to Chlorination,
W76-12654 9-23 5D

FINTSCHENKO, P.
Pickling with Hydrogen Peroxide Solutions,
W76-08479 9-16 5D

FINZI, G.
Comment Upon Multivariate Synthetic Hydrology,
W76-05909 9-12 2A

FIROUZIAN, A.
Hydrological Studies of the Saginaw Formation in the Lansing, Michigan Area - 1962,
W76-11870 9-22 2F

FIRPI, M.
Performance of Auxiliary Bactericides in Process Waters (Prestazione degli ausiliari battericidi nelle acque di fabbricazione),
W76-02504 9-06 3C

FISANOVICH, T. I.
Structure of Water in the Cell: Review of the Literature, (In Russian),
W76-10974 9-20 1A

FISCHBACH, P. E.
Every-Other Furrow Irrigation of Corn,
W76-12371 9-23 3F

Fundamentals of Programmed Soil Moisture Depletion,
W76-12373 9-23 3F

Sprinkler Irrigation Design Criteria for Sugar Beets,
W76-12374 9-23 3F

FISCHER, D. W.
Environmental Impact Assessment as an Instrument of Public Policy for Controlling Economic Growth,
W76-05828 9-12 6G

Willingness to Pay as a Behaviourial Criterion for Environmental Decision-Making,
W76-05826 9-12 5G

FISCHER, E. C.
The Fouling Community as a Field Monitoring Technique,
W76-10354 9-19 5C

FISCHER, F.
Abundance and Biomass of Zooplankton during the Synoptic Investigation of the Shallow Inlets to the South of the Zingst Peninsula (South Baltic) During May/June, 1972. (In German),
W76-10817 9-20 5C

Contribution on the Knowledge of the Organic in the Coastal Waters of the GDR: V. the Variability of the Chemical Oxygen Consumption at Selected Stations of the Waters in the Shallow Inlets to the South of the Zingst Peninsula During the Synoptic Investigation in 1972, (In German),
W76-12916 9-24 5B

FISCHER, H. B.
Jet Discharge into a Stratified Reservoir,
W76-00911 9-02 8B

A Numerical Model of Material Transport in Salt-Wedge Estuaries, Part 1. Description of the Model,
W76-02481 9-05 2L

FISCHER, J. A.
Environmental Considerations of Sanitary Landfill Sites: Part I,
W76-01649 9-04 5E

Environmental Considerations of Sanitary Landfill Sites: Part Two,
W76-02988 9-06 5E

Evaluation of Offshore Breakwater Stability Under Wave Action,
W76-09387 9-17 5G

Geotechnical Aspects of Rock Borrow for Large Breakwaters,
W76-09386 9-17 5G

FISCHER, P. W.
Method of Inhibiting Scale for High Temperature Steam Wells,
W76-11842 9-22 8G

FISCHER, W. H.
Equitable Apportionment of Interstate Ground Waters,
W76-10728 9-20 4B

Generalized Criteria for Verification of Water Developed Through Weather Modification,
W76-01519 9-04 3B

FISCHER, W. K.
Biodegradability--An Important Criterion for the Environmental Compatibility of Surfactants and Other Product Compounds,
W76-10235 9-19 5A

FISCHER, Z.
Biology and Bioenergetics of Grass Carp (Ctenopharyngodon Idella Val.),
W76-06013 9-12 2I

FISH, H.
Principles of Water Quality Management--11. Fisheries and Amenity Requirements,
W76-02653 9-06 8I

FISHELSON, L.
Survival of Enterobiruses on Vegetables Irrigated With Chlorinated Oxidation Pond Effluents,
W76-01767 9-04 5C

FISHER, A. C.
Valuing Long-Run Ecological Consequences and Irreversibilities,
W76-11161 9-21 6G

FISHER, E. N.
Deployable System for Containing Oil Spills,
W76-01133 9-03 5G

FISHER, F. J.
Controlling Well Kicks When Shut-In Method are Unsafe,
W76-03760 9-08 8C

FISHER, J. C.
Hydrologic Data for Urban Studies in the Houston, Texas Metropolitan Area, 1973,
W76-02961 9-06 7C

FISHER, J. R.
The Volumetric Properties of H20--A Graphical Portrayal,
W76-11420 9-21 1A

FISHER, P. D.
A Practical Data Management System for Monitoring and Managing Large Distributed Ecosystems,
W76-11608 9-21 5C

FISHER, S. A.
Effluent Control in Zinc Bonderizing Processes: I. The Recycle of Rinse Waters Via an Ion Exchange Process,
W76-05284 9-11 5E

FISHER, W. S.
Mortalities and Epibiotic Fouling of Eggs from Wild Populations of the Dungeness Crab Cancer Magister,
W76-08444 9-16 5C

FISHER, W. W.
Utilization of Clear Water Sewage Effluent in Mineral Processing,
W76-12464 9-23 5E

FISHMAN, G. I.
Treatment of Wastewaters from Carbamid Resin Production (Ochistka stochnykh vod o proizvodstva karbamidnoy smoly),
W76-04086 9-09 5E

FISYUNOV, A. V.
Germination of Weed Seeds Depending on Soi Moisture and Density, (In Russian),
W76-10965 9-20 3E

FITCH, H. R.
Map Showing Potential Sources of Gravel and Crushed-Rock Aggregate in the Boulder-For Collins-Greeley Area, Front Range Urban Cor ridor, Colorado,
W76-12789 9-24 7C

Map Showing Potential Sources of Gravel and Crushed-Rock Aggregate in the Colorado Springs-Castle Rock Area, Front Range Urban Corridor, Colorado,
W76-12787 9-24 7C

Map Showing Potential Sources of Gravel and Crushed-Rock Aggregate in the Greater Denve Area, Front Range Urban Corridor, Colorado,
W76-12796 9-24 7C

FITZERALD, W. J.
The Dielectric Properties of Antarctic Ice,
W76-05374 9-11 2C

FITZGERALD, G. P.
Green Bay Self-Purifies Algal Nutrients,
W76-00615 9-02 5C

FITZGERALD, J. W.
Approximation Formulas for the Equilibrium Size of an Aersol Particle as a Function of it Dry Size and Composition and the Ambien Relative Humidity,
W76-02421 9-05 2E

'ZGERALD, P. D.
The Effects of Climate on Water use in Canterbury Irrigation Schemes,
W76-00194 9-01 2G

'ZHARRIS, B. B.
Land-Use Change and the Water Balance--An Example of an Evapotranspiration Simulation Model,
W76-03359 9-07 2D

'ZHUGH, D.
Irrigation System Water Emitter,
W76-06468 9-13 3F

'ZMAURICE, P.
Biology of the Rudd Scardinius Erythrophthalmus (L) in Irish Waters,
W76-07419 9-14 2H

'ZNER, R. E.
Ecological Characterizations of the Boardman Site and Environs-Morrow County, Oregon,
W76-04841 9-10 5C

'ZSIMMONS, D.
Quality of Water Considerations in Arid Area Water Management,
W76-10608 9-20 5B

'ZSIMMONS, D. W.
Establishing Water, Nutrient and Total Solids Mass Budgets for a Gravity-Irrigated Farm,
W76-13015 9-24 3F

Factors Influencing the Loss of Nitrogen and Phosphorus from a Tract of Irrigated Land,
W76-13014 9-24 5G

Mixing in Sprinkler Irrigation Systems,
W76-00834 9-02 3F

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The Relationship Between Social Psychological Systems and Water Resources Development: A Summary,
W76-05364 9-11 6B

Social Assessment Manual: A Guide to the Preparation of the Social Well Being Account,
W76-05993 9-12 6B

ERDINGSTAD, E.
Chemical Analysis of Trace Elements in Iceland Geysirs with Remarks on Mastigocladus Laminosus Cohn,
W76-01912 9-04 5A

LADDA, G.
The Fiberlog, a New Monitor for Fibrous Effluents,
W76-10843 9-20 5A

LAHERTY, D. C.
The Cows VS. The Suburbs,
W76-02990 9-06 5D

LAHERTY, T. K.
Three-Media Filtration Plant Treats a Problem Water,
W76-09155 9-17 5F

LAIG, W.
Pollution Control through Utilization of Spent Sulfite Liquors from the Pulp Industry as Organic Nitrogen Fertilizer (Ein Beitrag zur umweltfreundlichen Technik durch Verwertung der Sulfitablaugen der Zellstoffindustrie als organischer Stickstoffduenger),
W76-10851 9-20 5D

FLAKE, R. H.
A Boundary Value Approach for Estuarine Water Quality Modelling with Results for Jamaica Bay, New York,
W76-11881 9-22 5B

Large-Scale Estuarine Water Quality Matrix Model,
W76-10191 9-19 5B

Large Scale Systems Approach to Estuarine Water Quality Modelling with Multiple Constituents,
W76-12517 9-23 5B

Shooting Models for Salinity and Coliform,
W76-08134 9-16 5B

FLANAGAN, M. J.
Full Automation Goal of Water Reclamation Plant,
W76-06337 9-13 5D

FLATAU, G.
Incineration at Sea of Liquid Chlorinated Residues (In French),
W76-06746 9-13 5E

FLATO, J.
Application of Pulse Polarography to Pollutant Analysis,
W76-03529 9-08 5A

FLEER, G. J.
Polymer Adsorption and Its Effect on the Stability of Hydrophobic Colloids. II. The Flocculation Process as Studied with the Silver Iodide-Polyvinyl Alcohol System,
W76-04295 9-09 5F

FLEISCHER, P.
Field Performance of Permeable Breakwater,
W76-08684 9-16 8A

FLEISHMAN, D. G.
Differences in the Specific Activity of Cs137 in the Components of a Freshwater Ecosystem,
W76-06882 9-14 5C

Environmental Na22 in Freshwater Ecosystem Studies,
W76-06874 9-14 5C

FLEMAL, R. C.
Regional Characteristics of the Total Dissolved Minerals in Stream Waters in Illinois,
W76-11857 9-22 5A

Regional Distribution of the Major Dissolved Solids in the Streams of Illinois,
W76-06163 9-13 5B

FLEMER, D. A.
Biochemical Studies of Entrained Phytoplankton at the Morgantown Maryland Power Plant,
W76-08642 9-16 5C

The Effects of Entrainment on Phytoplankton at the Morgantown Steam Electric Station, Potomac River Estuary, September 5-8, 1972,
W76-08641 9-16 5C

FLEMING, B.
Records of Wells, Drillers' Logs, Water-Level Measurements, and Chemical Analyses of Ground Water in Brazoria, Fort Bend, and Waller Counties, Texas, 1966-74,
W76-08569 9-16 4B

Records of Wells, Drillers' Logs, Water-Level Measurements, and Chemical Analyses of Ground Water in Chambers, Liberty, and Montgomery Counties, Texas, 1966-74,
W76-09144 9-17 7C

Records of Wells, Drillers' Logs, Water-Level Measurements, and Chemical Analyses of Ground Water in Harris and Galveston Counties, Texas, 1970-74,
W76-08570 9-16 4B

FLEMING, P. M.
Infiltration of Water into Soil,
W76-04132 9-09 2G

FLEMING, R. A.
Assessment of the Effects of Waste Heat Inputs on Water Budgets of the Great Lakes,
W76-11305 9-21 5C

FLENSBURG, T.
The Algal Microflora of a String Mire in Relation to the Chemical Composition of Water,
W76-01200 9-03 5C

FLEROV, B. A.
Use of Animal Behavior Studies in Water Toxicology, (In Russian),
W76-11731 9-22 5A

FLETCHER, G. M.
Watercraft for Scavenging Oil Spillage,
W76-05548 9-12 5G

FLETCHER, N. H.
Thermal Shock as an Ice Multiplication Mechanism. Part I. Theory,
W76-07547 9-15 2B

Thermal Shock as an Ice Multiplication Mechanism. Part II. Experimental,
W76-07548 9-15 2B

FLETCHER, P. W.
Water-Saving Devices: The State of the Art,
W76-06317 9-13 3D

FLETCHER, R. H.
Separation Processes Used for Pollution Control in the Pulp and Paper Industry,
W76-09340 9-17 5D

FLETT, D. R.
New Plant Solves Seasonal Problem,
W76-03716 9-08 5D

FLETT, R. J.
Acetylene Reduction Assays for Nitrogen Fixation in Freshwaters: A Note of Caution,
W76-06202 9-13 5A

FLEWELLING, F. J.
Canadian Experience with the Reduction of Mercury at Chlor-Alkali Plants,
W76-09273 9-17 5G

FLIEGEL, M.
Internal Wave Dispersion Calculated Using the Thomson-Haskell Method,
W76-01275 9-03 2L

FLIGIER, J.
Dissolved Oxygen Analyzer T-01 Analyzer. A Simple Apparatus for Electrochemical Determination of Dissolved Oxygen in Water (Tlenomierz T-01 uproszczony przyrzad elektrochemicznego oznaczania tleunu roxpuszczomego w roztworach wodnych),
W76-09688 9-18 5A

FLINT, R. W.
The Effects of a Benthic Grazer on the Primary Productivity of the Littoral Zone of Lake Tahoe,
W76-06719 9-13 5C

FLIPPO, H. N. JR.
Springs of Pennsylvania,
W76-07604 9-15 2F

FLOCCIA, M.
The Disposal of Wastes into the Sea of the Province of Rome (Italy), (In Italian),
W76-12570 9-23 5E

FLOODGATE, G. D.
Microbial Interaction with Oil in the Marine Environment,
W76-11015 9-20 5C

FLORES, C.
Notes on the Importance of Dissolved and Particulate Organic Matter in Marine Food Chains, (In Spanish),
W76-08916 9-17 5C

FLORES, R. M.
Short-Headed Stream Delta: Model for Pennsylvanian Haymond Formation, West Texas,
W76-04397 9-09 2J

FLORES-SOUSA, G.
The Planning and Construction of Potable Water Works in Relation to Their Operation (El Proyector y Construccion de Obras de Agua Potable en Relacion con la Operacion),
W76-03253 9-07 5F

FLOROV, R. I.
Hydrothermic Regime and Productivity of Forests of Natural Origin, (In Russian),
W76-09080 9-17 2I

FLORQUIST, B. A.
Water Monitoring - Jim Bridger Project - Sweetwater County, Wyoming,
W76-09349 9-17 5A

FLORY, J. F.
Oil Ports on the Continental Shelf,
W76-10984 9-20 5G

FLOYD, C. F.
The Economic Impact of Recreational Land-Use in an Island Environment: A Case Study of Jekyll Island, Georgia,
W76-10581 9-20 6B

Implications of Zoning as An Urban Water Management Measure,
W76-08755 9-17 6F

FLUHLER, H.
A Hydrophobic Membrane Probe for Total Pressure and Partial Pressure Measurements in the Soil Atmosphere,
W76-01480 9-03 2G

FLUHR, W. E.
Irrigation System Pivot Swivel,
W76-09866 9-18 3F

FLUNKERT, R.
Progress with the Decarbonization Processes (Fortschritte in der Verfahrenstechnik der Entcarbonisierung),
W76-01545 9-04 5F

FLYNN, B. H.
Legal Institutions for the Allocation of Water and Their Impact on Coal Conversion Operations in Kentucky,
W76-11489 9-21 6E

FLYNN, B. L. JR.
Swiss Mill is Trying Wet Air Oxidation to Get Rid of Sludge and Recover Filler,
W76-12489 9-23 5D

FLYNN, C. J.
Pressure and Flow Regulation Device,
W76-09049 9-17 3F

FLYNN, T. F. X.
Sludge Disposal Alternatives,
W76-06292 9-13 5E

FOERSTER, J. W.
Thermal Effects on the Microbiology and Chemistry of the Connecticut River-A Summary,
W76-02014 9-05 5C

FOESS, G. W.
Evaluation of In-Line and Side-Line Flow Equalization Systems,
W76-06348 9-13 5D

FOGARTY, T. J.
Water Quality Modeling of Deep Reservoirs,
W76-04552 9-10 5B

FOGEL, M.
Mountainous Winter Precipitation: A Stochastic Event-Based Approach,
W76-09062 9-17 2B

Uncertainty in Sediment Yield From A Semi-Arid Watershed,
W76-02240 9-05 2J

FOGEL, M. M.
Decision Analysis for Watershed Management Alternatives,
W76-06905 9-14 4D

A Deterministic Model for Semi-Arid Catchments,
W76-02235 9-05 2E

Environmental Considerations in River Basin Planning and Decision Making,
W76-05510 9-12 4A

The Use of Multiple Regression Models in Predicting Sediment Yield,
W76-11693 9-22 2J

FOGLEMAN, W. W.
Sensors for Continuous Monitoring of Toxic Ions, Nutrients, and Dissolved Gases in Water,
W76-09906 9-18 5A

FOGMAN, C. B.
Pollution Controlled Polysulfide Recovery Process,
W76-03077 9-07 5D

FOK, Y-S.
A Comparison of the Green-Ampt and Philip Two-Term Infiltration Equations,
W76-06404 9-13 2G

Development of the University of Hawaii-Manoa Stream Gaging Station,
W76-11876 9-22 4A

FOKIN, A. V.
Cleaning of Industrial Effluent,
W76-08719 9-16 5D

FOLEY, M. G.
Automated Wet Sand Feeder for Open-Circuit Flumes,
W76-06936 9-14 8B

FOLIGUET, J. M.
Problems Concerning the Character of Oxidizability of Certain Organic Substances in Water Treated with Ozone (Problemes lies A L'Evolution Du Caractere D'Oxydabilite De Certain Corps Organiques Presents Dans L'Eau Tratee Par L'Ozone),
W76-09692 9-18 5D

Study of the Behaviour of Poliomyelitis Virus Type 1 in Different Hydrous Media, (In French),
W76-11569 9-21 5A

FOLKENROTH, J. C.
Coastal Zone Management and Intergovernmental Coordination,
W76-06057 9-12 6E

FOLLETT, R. F.
Effect of Irrigation and Water-Table Depth on Crop Yields,
W76-00837 9-02 3F

FOLSOM, B. L.
Solution Phosphorus Concentration and Growth of Rice (Oryza Sativa L.) in Flooded Soils,
W76-10122 9-19 3F

FOLSOM, T. R.
210Po Radioactivity in Organs of Selected Tunas and Other Marine Fish,
W76-07962 9-15 5C

FONG, C. C.
Fluoride Removal: Technology and Cost Estimates,
W76-08703 9-16 5D

FONG, C. V.
Identification of Organic Compounds in Effluents from Industrial Sources,
W76-11598 9-21 5A

FONKEN, D. W.
An Analysis Of Border Irrigation Flow,
W76-02728 9-06 3F

Fundamentals of Programmed Soil Moisture Depletion,
W76-12373 9-23 3F

Sprinkler Irrigation Design Criteria for Sugar Beets,
W76-12374 9-23 3F

FORAN, D.
The Use of ERTS Imagery in Reservoir Management and Operation,
W76-08537 9-16 4A

FORBES, L.
Heavy Metal Content in the Sediments of the Southern Part of the Coeur D'Alene Lake,
W76-07394 9-14 2H

Heavy Metal Pollution in the Sediments of the Coeur D'Alene River Delta,
W76-04091 9-09 5A

FORD, A.
Use of Reverse Osmosis and Ultrafiltration for Removing Microorganisms From Water,
W76-03349 9-07 5F

ORD, A. JR.
Removal of f2 Virus From River Water by Army Water Purification Units,
W76-00251 9-01 5F

ORD, D. L.
The Applicability of Carbon Adsorption in the Treatment of Petrochemical Wastewaters,
W76-02435 9-05 5D

ORD, G. W. K.
An Evaluation of the Use of Gamma Radiation in Sewage Treatment,
W76-05803 9-12 5D

ORD, H. W.
Low Pressure Jet Cleaning of Plastic Drains in Sandy Soil,
W76-01569 9-04 8B

ORDHAM, J.
Preliminary Investigation of Ground-Water Quality and Its Effect on Suburban Development in Washoe Valley, Nevada,
W76-04386 9-09 5A

ORDYCE, H.
Plume Recirculation and Interference in Mechanical-Draft Cooling Towers,
W76-04806 9-10 5B

ORDYCE, I. V.
Separation, Dewatering and Disposal of Sugar Beet Transport-Water Solids,
W76-02783 9-06 5D

ORE, P. L.
Ecosystems Analysis of the Big Cypress Swamp and Estuaties,
W76-10046 9-19 6G

OREMAN, D. G.
Acute Toxicity of Selected Toxicants to Six Species of Fish,
W76-10900 9-20 5C

OREMAN, G. E.
Development of Reverse Osmosis Membranes and Spiral Design Modules for Demineralization of Brackish Waters at Low Pressures,
W76-08373 9-16 3A

ORESTELL, W. L.
City--Industry Teamwork Solves Critical Wastewater Problem,
W76-11891 9-22 5G

ORESTER, H. W.
Waste Sludge Treatment with Pressure Filtration,
W76-03676 9-08 5D

ORESTER, J.
Aroclor 1016: Toxicity to and Uptake by Estuarine Animals,
W76-10340 9-19 5C

Effects of Aroclor 1016 on Embryos, Fry, Juveniles, and Adults of Sheephead Minnows (Cyprinodon Variegatus),
W76-02389 9-05 5C

ORESTER, R. H.
Continued Evaluation of In-Situ-Formed Condensation Polymers for Reverse Osmosis Membranes,
W76-08116 9-16 3A

In-Situ-Formed Condensation Polymers for Reverse Osomsis Membranes-Final report,
W76-03259 9-07 3A

FORRESTER, R. I.
Steady Infiltration form Buried, Surface, and Perched Point and Line Sources in Heterogeneous Soils: II. Flow Details and Discussion,
W76-00649 9-02 2G

FORRESTER, W. D.
Distribution of Suspended Oil Particles Following the Grounding of the Tanker Arrow,
W76-11096 9-20 5B

FORSELL, B.
The Lamella Separator: A Definition and Result of Pilot Studies in the Pulp and Paper and Steel Industries,
W76-02437 9-05 5D

FORSHT, E. H.
Development Document for Effluent Limitations Guidelines and Standards of Performance for the Catfish, Crab, Shrimp and Tuna Segments of the Canned and Preserved Seafood Processing Industry Point Source Category,
W76-01237 9-03 5G

FORSTER, B. A.
Optimal Pollution Control with a Nonconstant Exponential Rate of Decay,
W76-03206 9-07 5G

FORSTER, C. F.
The Biological Treatment of Food Industry Effluents,
W76-05346 9-11 5D

The Nature of Activated Sludge Flocs,
W76-09188 9-17 5D

Practical Research in Water Pollution Control,
W76-06340 9-13 5D

Protein Recovery from Dairy Wastes by Electroflotation,
W76-04216 9-09 5D

FORSTER, D. L.
Economic Impacts of Alternative Water Pollution Control Rules on Beef Feedlots of Less Than 1000 Head Capacity,
W76-07158 9-14 5D

Simulated Beef Feedlot Behavior Under Alternative Water Pollution Control Rules,
W76-02720 9-06 5G

FORSTER, R. L.
Port Collection and Separation Facilities for Oily Wastes. Vol. 5. A Comparative Analysis of Conceptual System Plans for the Surveyed Ports Under the 'No Discharge', '1969 Amendments' and 'No Sheen' Criteria,
W76-05830 9-12 5D

FORSTER, W. O.
Southeast Coastal Research Activities of ERDA,
W76-11477 9-21 6G

Trace Element Interactions in the Estuarine Zone of the Anasco River, Puerto Rico,
W76-10892 9-20 5C

FORSUND, F. R.
The Polluter Pays Principle and Transitional Period Measures in a Dynamic Setting,
W76-02377 9-05 5G

FORSYTH, D. G.
Selected Satellite Data on Snow and Ice in the Great Lakes Basin 1972-73,
W76-11301 9-21 2C

FORSYTHE, S. L.
Estimating the Reliability of Advanced Waste Treatment,
W76-12904 9-24 5D

Estimating the Reliability of Advanced Waste Treatment - Part 2,
W76-12666 9-23 5D

FORTSON, J. C.
Planning and Selecting Multiobjective Projects by Goal Programming,
W76-06432 9-13 6A

FOSBERG, T.
Operating Data of a Vertical Plane Surface, Falling Film Evaporator Using Slurry and High Concentration Feeds,
W76-06250 9-13 3A

Parametric Data for Long Term Operation of a Vertical, Plane Surface, Falling Film, Vapor Compression Evaporator,
W76-06249 9-13 3A

FOSBERG, T. M.
Industrial Wastewater Reclamation,
W76-02450 9-05 5D

FOSSATO, V. U.
Elimination of Hydrocarbons by Mussels,
W76-11822 9-22 5C

FOSSUM, G. O.
Pretreatment of Combined Municipal and Potato Processing Wastes,
W76-04749 9-10 5D

FOSTER, G. R.
Effect of Flow Rate and Canopy on Rill Erosion,
W76-03861 9-08 2J

Evaluating Irregular Slopes for Soil Loss Prediction,
W76-01567 9-04 2J

FOSTER, H. D.
Flood Loss Management in Developing Countries: A Model for Identifying Appropriate Strategies,
W76-05761 9-12 6A

FOSTER, I. D. L.
Variations in the Natural chemical Concentration of River Water During Flood Flows, and the Lag Effect: Some Further Comments,
W76-02916 9-06 5A

FOSTER, J.
Extraction and Utilization of Space Acquired Physiographic Data for Water Resources Development,
W76-04953 9-10 4A

Extraction and Utilization of Space Acquired Physiographic Data for Water Resources Development,
W76-07566 9-15 4D

FOSTER, J. E.
Physical Modeling Techniques Used in River Models,
W76-09972 9-18 2E

FOSTER, J. H.
Economic and Legal Analysis of Alternative Flood Control Strategies: Phase I,
W76-06159 9-13 6F

A Floodplain Management Framework with Structural and Non-Structural Measures,
W76-09754 9-18 6F

FOSTER, J. L.
Seasonal Streamflow Estimation Employing Satellite Snowcover Observations,
W76-06638 9-13 4A

FOSTER, K. E.
Continuation of the Arizona Water Information System (AWIS),
W76-12216 9-23 10D

Remote Sensing as an Aid to Community Development in an Arid Area,
W76-02165 9-05 7B

Remote Sensing of Resources in Arid Lands,
W76-06260 9-13 7A

FOSTER, M.
An Assessment of the Expected Impact of a Dredging Project Proposed for Pala Lagoon, American Samoa,
W76-06654 9-13 6G

FOSTER, P.
Seasonal Distribution of Ultraviolet Absorption in the Surface Waters of Liverpool Bay,
W76-06740 9-13 5B

The Winter Distribution of Ultra-Violet Absorption in the Surface Waters off the West Coast of the British Isles,
W76-06739 9-13 5B

Zinc Phosphate Granules in Tissue Surrounding the Midgut of the Barnacle Balanus Balanoides,
W76-10057 9-19 5C

FOSTER, P. D.
Decolorizing Method for Waste Kraft Paper Mill Effluents,
W76-08207 9-16 5D

FOSTER, R. S. IV.
Thermal Tolerance of Stored Fundulus Heteroclitus Gametes: Fertilizability and Survival of Embryos,
W76-11180 9-21 5C

FOSTER, S. S. D.
Water Supplies from Ulster Valley Gravels,
W76-12524 9-23 4B

FOSTER, T. D.
Temperature and Salinity Structure in the Weddell Sea,
W76-06394 9-13 2L

FOSTER, W. S.
Get the Water Out of Alum Sludge,
W76-03334 9-07 5F

Smoke Test Sewers to Ferret Out Illegal Inflow,
W76-11211 9-21 8G

FOUCHEAUX, D. J. JR.
Iceland's Regulations Establishing a Fishery Zone with a 50-mile Limit are not Opposable to the United Kingdom and the Federal Republic of Germany,
W76-04349 9-09 6E

FOULK, D. G.
National Water Data Storage and Retrieval System: Instructions for Preparation and Submission of Ground-Water Data,
W76-10148 9-19 10D

FOUNTAINE, J. E.
Some Observations Regarding Pentachlorophenol Levels in Haverford Township, Pennsylvania,
W76-12591 9-23 5B

FOURNIER, E.
Filter Having a Flexible Wall for Filtering Liquids,
W76-02813 9-06 5D

FOURNIER, L. B.
A Peroxygen System for Destroying Cyanide in Zinc and Cadmium Electroplating Rinse Waters,
W76-08470 9-16 5D

FOURNIER, P.
Reproduction of the Banded Killifish: Fundulus Diaphanus Diaphanus (Le Sueur), (In French),
W76-07937 9-15 2H

FOURNIER, R. O.
An Empirical Na-K-Ca Geothermometer for Natural Waters,
W76-10598 9-20 2K

FOWLER, B. A.
Mercury and Iron Uptake by Cytosomes in Mantle Epithelial Cells of Quahog Clams (Mercenaria Mercenaria) Exposed to Mercury,
W76-03027 9-07 5C

FOWLER, D. B.
Fecundity of the Brown Bullhead, Ictalurus Nebulosus (Le Sueur) in a Mine Acid Polluted River,
W76-05641 9-12 8I

FOWLER, J. C.
Inclusion of Dried Poultry Waste as a Feed Ingredient in Catfish Rations,
W76-01091 9-03 5E

FOWLER, R. E.
Effects of Grazing on Infiltration Rates in Waste Water Spray Fields,
W76-03124 9-07 5D

Effects of Grazing on Infiltration Rates in Waste Water Spray Fields,
W76-08352 9-16 5E

FOWLER, S. W.
Flux of Cadmium Through Euphausiids,
W76-02327 9-05 5C

Relative Importance of Food and Water in Long-Term Zinc-65 Accumulation of Marine Biota,
W76-03780 9-08 5C

FOWLER, T. R.
Impact of Remote Sensing Upon the Planning, Management, and Development, and Development of Water Resources,
W76-08536 9-16 6B

FOWLER, W. J. JR.
Water-Soluble Cationic Polymeric Materials and their Use,
W76-10964 9-20 5D

FOX, D. M.
Conversion of a Trickling Filter Plant to Activated Sludge,
W76-05588 9-12 5D

FOX, G. E.
The Dispersed Flow Model for a Biological Reactor as Applied to the Activated Sludge Process,
W76-03793 9-08 5D

FOX, I. A.
Rapid Recharge in a Limestone Aquifer,
W76-06685 9-13 2F

FOX, I. K.
An Assessment of University Interdisciplin Research: The Wisconsin River and the L Fraser River Water Quality Studies,
W76-00077 9-01

Research Issues in Water Quality Manageme
W76-01351 9-03

FOX, J. D.
Model Development and Systems Analysis the Yakima River Basin -- Forest Hydrol Model,
W76-00672 9-02

FOX, R. A.
Polyelectrolytes in Pressure Filtration: periences at Farnham,
W76-03336 9-07

FOX, R. L.
Development of Assymmetric Cellul Triacetate Membranes for Seawater Desali tion,
W76-08283 9-16

FOX, S. D.
Irrigation Scheduling and Sugarbeet Prod tion,
W76-13002 9-24

FOX, W. T.
Coastal Dynamics on Cedar Islands, Virginia
W76-01325 9-03

Simultaneous Process-Response Study on East and West Coasts of Lake Michigan,
W76-01494 9-03

FRADKIN, L. P.
Geomechanical Investigations of the Ro Bases of Hydraulic Structures,
W76-04323 9-09

FRAIZIER, A.
Influence De La Temperature Sur La Co tamination D'Especes Marines Par Le Fer- (Influence of Temperature on the Contami tion of Marine Species by Iron-59),
W76-09494 9-18

FRALICK, R. A.
Physiological Ecology of Four Polysiphon Species (Rhodophyta, Ceramiales),
W76-12705 9-24

FRAMINGHAM, C. F.
A Dynamic Regional Model for Evaluati Resource Development Programs,
W76-12520 9-23

FRANCESCHIMI, G. A.
Primary Production and the Factors Controlli Phytoplankton Growth in the Antarctic Seas,
W76-08942 9-17

FRANCIS, A. J.
Re-Use of Sewage Effluent and Sludge,
W76-03326 9-07

FRANCIS, C. W.
Biological Denitrification and its Application Treatment of High-Nitrate Waste Water,
W76-05792 9-12

Denitrification of Acid Wastes from Uraniu Purification Processes,
W76-04843 9-10

Radiocesium Cycling in Vegetation and Soil,
W76-10296 9-19

ANCISCO, D. E.
vailability of Aluminum Phosphate from lum-Treated Wastewater for Algal Growth,
/76-08842 9-17 5D

ANCK, T. M.
n International Regime for the Seabed eyond National Jurisdiction,
/76-12006 9-22 6E

ANCKE, H. C.
enitrification of Acid Wastes from Uranium urification Processes,
/76-04843 9-10 5D

ANCO, J. J.
Navigation Conditions at Uniontown Locks nd Dam, Ohio River; Hydraulic Model Investigation.
/76-07472 9-15 8B

ANCOIS, L. E.
ffects of Frequency of Sprinkling with Saline Vaters Compared with Daily Drip Irrigation,
/76-00708 9-02 3C

nteractive Effects of Salinity and Fertility on ields of Grains and Vegetables,
/76-00741 9-02 3C

ANK, C. L.
Report to International Joint Commission, Jnited States and Canada, Great Lakes Water Quality,Status of Pertinent EPA Research,
/76-02451 9-05 5G

ANK, E. C.
Hydrology of Black Mesa Watersheds, Western Colorado,
/76-01233 9-03 4D

ANK, G.
Optimization of Water Resources Development Projects in Case of Inadequate Hydrologic Data,
/76-11971 9-22 6A

ANK, H. J.
Arizona Energy Inventory: A Report on the State's Energy Position and Outlook to 1985,
/76-00196 9-01 6B

Arizona Energy Inventory: A Report on the State's Energy Position and Outlook to 1985,
/76-01709 9-04 6B

ANK, J. F.
Status of the Illinois Livestock Waste Management Regulations,
/76-03984 9-08 5G

ANK, K. D.
Anhydrous Ammonia Application in Irrigation Water VS. Mechanical and its Effect on Corn Yields,
/76-01072 9-03 3F

ANK, L. H.
Behavioral Thermoregulation in Hypophysectomized and Sham-Operated Rainbow Trout, Salmo Gairdneri,
/76-12755 9-24 5C

ANK, M. L.
Relative Sensitivity of Different Developmental Stages of Carp Eggs to Thermal Shock,
/76-03474 9-07 5C

ANK, P. A.
TCA In Irrigation Water After Bank Treatments for Weed Control,
/76-00706 9-02 5B

FRANK, P. W.
Latitudinal Variation in the Life History Features of the Black Turban Snail Tegula Funebralis (Prosobranchia: Trochidae),
W76-12751 9-24 5C

FRANK, R. A.
Environmental Aspects of Deep Sea Mining,
W76-07815 9-15 6E

FRANKE, G. W.
A Report on the Artificial Fertilization of the Smallmouth Yellowfish, Barbus Holubi (Steindachner, 1894),
W76-01021 9-03 8I

FRANKENFELD, J. W.
Toxic Effects of Oil Discharged from Ships,
W76-12380 9-23 5C

FRANKLAND, P.
Public Evaluation of Water Quality and Its Impact on Recreation: A Case from Iowa,
W76-13050 9-24 5G

FRANKLIN, M.
A Simulation Model of Biophysiochemical Transformations of Nitrogen in tile-Drained Corn Belt Soil,
W76-08761 9-17 5B

FRANKLIN, T. M.
Highway-Wildlife Relationships Volume 2. An Annotated Bibliography,
W76-10004 9-19 4C

FRANKS, A. L.
Safe Drinking Water Act - Implications for Ground Water Quality Protection,
W76-11064 9-20 5F

FRANSEN, F. H.
Total--New Grass-Roots Plant for the Dutch,
W76-05282 9-11 5D

FRANSOLET, G.
Techniques for Dispersing and Dissolving Ozone in Water/Part I,
W76-07035 9-14 5F

FRANTZ, T. C.
Where Have all the Daphnia Gone.The Decline of a Major Cladoceran In Lake Tahoe, California-Nevada,
W76-04912 9-10 5C

FRANZ, N.
The Daily Course of Water Potential and Water Balance of Plants Growing on Different Habitats of Middle Triassic Limestone in Franconia (In German),
W76-04955 9-10 2I

FRANZ, W. F.
Coking of Waste Kraft Pulping Liquors at Lowered pH,
W76-07761 9-15 5D

Process for Converting Aqueous Sewage to Potable Water,
W76-11215 9-21 5D

FRANZEN, A. E.
Tertiary Treatment of Process Water,
W76-01634 9-04 5D

FRASER, A.
Phosphorus and Nitrogen Cycle on a Transect in Lake Ontario During the International Field Year 1972-1973 (IFYGL),
W76-09594 9-18 5C

FRASER, A. B.
Cascade Atmospheric Water Resources Program, Volume I,
W76-06600 9-13 3B

FRASER, J. E.
Water Quality and Phytoplankton Productivity of Summersville Reservoir,
W76-01143 9-03 5C

FRASER, R. S.
An Automated Technique for the Sub-Microgram Determination of Selenium and Arsenic in Surface Waters by Atomic Absorption Spectroscopy,
W76-05736 9-12 5A

FRASER, W. D.
Oxygen Isotope Studies on Sea Ice in the Gulf of St. Lawrence,
W76-12448 9-23 2C

FRASIER, G. W.
Water Harvesting: State of the Art,
W76-06584 9-13 3B

FRAUCHIGER, U.
Apparatus for the Treatment of Liquid Wastes,
W76-05967 9-12 5D

FRAZIER, J. M.
The Dynamics of Metals in the American Oyster, Crassostrea Virginica. I. Seasonal Effects,
W76-01938 9-04 5C

FRECH, S.
Impact of Remote Sensing Upon the Planning, Management, and Development, and Development of Water Resources,
W76-08536 9-16 6B

FRECHEN, B.
Operation of Sewer and Drainage Systems (Betrieb von Kanalisations-und Entwaesserungsanlagen),
W76-00626 9-02 5D

FRECKER, M. F.
Man-Made Eutrophication in a Newfoundland (Canada) Harbour,
W76-03659 9-08 5C

FREDERICK, C. M.
A Natural History Study of the Vascular Flora of Cedar Bog, Champaign Counts, Ohio,
W76-06760 9-13 2H

FREDERICK, L. L.
Comparative Uptake of a Polychlorinated Biphenyl and Dieldrin by the White Sucker (Cataostomus Commersoni),
W76-03646 9-08 5C

FREDERICK, V. R.
Changes in the Algal Flora of East Harbor, Ottawa County, Ohio, Since 1900,
W76-08834 9-17 5C

FREDERICKS, R. G.
Measurement of Swash Profile and Orbital Motion on the Beach,
W76-02394 9-05 2L

Water Level Gauge,
W76-05977 9-12 7B

FREDRIKSEN, R. L.
The Impact of Timber Harvest, Fertilization, and Herbicide Treatment on Streamwater Quality in Western Oregon and Washington,
W76-05618 9-12 5B

FREDRIKSEN, R. L.

Nutrient Cycling in 37- and 450-Year-Old Douglas-Fir Ecosystems,
W76-05619 9-12 5B

Timber Production and Water Quality -- Progress in Planning for the Bull Run, Portland, Oregon's Municipal Watershed,
W76-05942 9-12 5B

FREEBORN, M. D.
Illinois Environmental Law--The New Assault on Water Pollution,
W76-05198 9-11 5G

FREED, R.
Urban Service Pricing and Land Use: Some Preliminary Results,
W76-10193 9-19 6C

FREELAND, G. L.
New York Alternative Dumpsite Assessment - Reconnaissance Study of Surficial Sediments,
W76-09383 9-17 5G

FREELAND, S. J.
Dynamics of Marsh Land Formation and Succession Along the Lower Colorado River and Their Importance and Management Problems as Related to Wildlife in the Arid Southwest,
W76-06589 9-13 4A

FREEMAN, A. M.
A Survey of the Techniques for Measuring the Benefits of Water Quality Improvement,
W76-11155 9-21 5G

FREEMAN, C. E.
Germination Responses of a New Mexico Population of Parry Agave (Agave Parryi Englem. Var. Parry I) To Constant Termperature, Water Stress, and pH,
W76-02456 9-05 2I

FREEMAN, L.
Wessex: Evolving with its Divisions,
W76-03811 9-08 6E

FREEMAN, N. G.
Helmholtz Resonance in Harbours of the Great Lakes,
W76-11306 9-21 2H

FREEMAN, P. H.
Coastal Zone Pollution by Oil and Other Contaminants: Guidelines for Policy, Assessment and Monitoring in Tropical Regions. Based Upon a Case Study in Indonesia, in 1973,
W76-11935 9-22 5B

FREEMAN, R. A.
An Ecological Evaluation of a Thermal Discharge: Preoperational Studies, 1970-1971,
W76-04580 9-10 5C

FREEMAN, T. E.
Biological Control of Water Weeds with Plant Pathogens,
W76-11904 9-22 4A

FREEOUF, J. A.
Solution Phosphorus Concentration and Growth of Rice (Oryza Sativa L.) in Flooded Soils,
W76-10122 9-19 3F

FREETHEY, G. W.
Preliminary Report on Water Availability in the Lower Ship Creek Basin, Anchorage, Alaska--With Special Reference to the Fish Hatchery on Fort Richardson and a Proposed Fish-Hatchery Site Near the Elmendorf Air Force Base Powerplant,
W76-07595 9-15 8I

FREEZE, R. A.
A Stochastic-Conceptual Analysis of One-Dimensional Groundwater Flow in Nonuniform Homogeneous Media,
W76-03128 9-07 2F

FREIBERGER, H. J.
Water and the South Florida Environment,
W76-03402 9-07 5C

FRENCH, D. W.
Forest Disease Detection and Control,
W76-02902 9-06 2I

FRENETTE, M.
Principle of Management of Degenerated Inlets and Estuaries,
W76-09958 9-18 8B

FRENZEL, C. A.
Detection of Salts of 2,4-D in Aqueous Solution by Laser Raman Spectroscopy,
W76-08254 9-16 5A

FRENZEL, H-J.
Fluctuations of the Runoff of Two Activated Sludge Plants and Its Consequences for the Observance of Limit Values (Schwankungen der Ablaeufe Zweier Schlammbelebunsanlagen und Inre Konsequenzen Fuer die Einhaltbarkeit von Grenzwerten),
W76-10242 9-19 5D

Types of Micro-Organisms in Activated Sludge in Dependence of Temperature and Nitrification (Die Besiedlung Des Belebten Schlammes in Abhaengigkeit Von Temperatur und Nitrifikation),
W76-12615 9-23 5A

FRESHWATER, D. C.
A New Approach to the Design of Filtration Systems,
W76-12642 9-23 5D

FRETWELL, M. O.
Table of Data on Quality of Surface Waters and of Snowpack Draining to Baker River from Mount Baker, Washington,
W76-04988 9-10 7C

FREUDENTHAL, P. B.
Ground-Water Levels in Wyoming, 1974,
W76-02964 9-06 7C

FREY, F.
Chemical Dynamics of a Polluted Watershed, the Merrimack River in Northern New England,
W76-12833 9-24 5B

FREY, J. C.
Economics of Water Supply Planning and Management,
W76-01802 9-04 6B

A Multidisciplinary Approach to Solving Community Water Problems,
W76-04391 9-09 10D

FREY, J. R.
Species Composition and Diversity of Polychaetes in the New York Bight,
W76-09650 9-18 5C

FREY, J. W.
Some Observations on Cooling-Tower Plume Behavior at the Paradise Steam Plant,
W76-04809 9-10 5B

FREY, K. P. H.
Breakwaters for Long, Short and/or Complex Water Waves,
W76-01723 9-04 8A

FREY, P. J.
Effects of Large Scale Forest Fires on Water Quality in Interior Alaska,
W76-10045 9-19 5C

FREYER, H. D.
Nitrogen-15 Variations in Fertilizer Nitrogen,
W76-00722 9-02 5A

FRIBERG, T. S.
Organic Compounds in Pulp Mill Lagoon Discharge,
W76-03631 9-08 5A

FRICK, G. E.
The Impact on Dairy Farm Organization of Alternative Manure Disposal Systems. A Method of Assessing the Cost of Environmental Regulation,
W76-11061 9-20 5D

FRIEBELE, C. D.
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W76-07605 9-15 10C

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W76-04980 9-10 10C

FRIEDHEIM, R. L.
Report of the Ocean Policy Research Workshop,
W76-07367 9-14 6E

FRIEDL, W. A.
Fishes in Oxygen-Minimum Zones: Blood Oxygenation Characteristics,
W76-09112 9-17 5C

FRIEDMAN, J. M.
Efficiency in Water Quality Control for the Willamette River,
W76-05658 9-12 5G

FRIEDMAN, Y.
A Combined Model for Operating Irrigated Agricultural Systems Under Uncertainties,
W76-09634 9-18 3F

FRIEL, E. A.
Records of Wells, Springs, and Streams in the Potomac River Basin, West Virginia,
W76-08055 9-15 4B

FRIEND, D. G.
An Instrument with Internal Calibration for Monitoring Chlorine Residuals in Natural Waters,
W76-10028 9-19 5A

FRIERMAN, M.
Epizootiology of Minchinia Nelsoni in Susceptible Wild Oysters in Virginia, 1959 To 1971,
W76-06035 9-12 5C

FRIES, H.
Sewage Treatment Method and Apparatus,
W76-11835 9-22 5D

FRIGO, A. A.
Field Observation of the Dynamics of Heated Discharge Jets,
W76-12775 9-24 5B

Field Observations of the Dynamics of Heated Discharge Jets,
W76-11307 9-21 5B

Field Studies of the Thermal Plume from the D. C. Cook Submerged Discharge with Comparisons to Hydraulic-Model Results,
W76-06673 9-13 5B

Measurements of Physical Phenomena Related to Power Plant Waste Heat Discharges: Lake Michigan, 1973 and 1974,
W76-12770 9-24 5B

Near Shore Lake Current Investigations,
W76-12774 9-24 5B

Thermal Plume Mapping,
W76-12771 9-24 5B

RIMPTER, M. H.
Evaluation of Data Availability and Examples of Modeling for Ground-Water Management on Cape Cod, Massachusetts,
W76-05856 9-12 4B

RINK, C. R.
Plant Nutrient Budgets and Waste Disposal,
W76-04416 9-09 5C

Water Chemistry and Fertility of Twenty-Three Connecticut Lakes,
W76-06207 9-13 5C

RISKEN, W. R.
Turbulent Kinetic Energy Balance Near the Frozen Surface of Eastern Lake Ontario,
W76-11298 9-21 2H

RISSEL, M. J.
The Contaminaion of Dutch Soils with Mercury and a Few Other Heavy Metals,
W76-07450 9-14 5B

RITH, C. F.
Reverse Osmosis -- Can it Replace Distillation,
W76-09667 9-18 5D

RITZ, J. E.
Water Supply and Sewage Facilities Plan Update - 1970 (1974 Supplement),
W76-10508 9-20 5G

RITZ, J. S.
Removal of Copper and Iron Prior to Water Hardness Titration,
W76-05716 9-12 5A

RITZSCHE, A.
Development of Snow Water Equivalent Survey Methods Using Airborne Gamma Measurements,
W76-06659 9-13 2C

RITZSCHE, A. E.
Snow Water Equivalent Surveys of the Souris River Basin,
W76-06665 9-13 2C

Soil Moisture Survey Experiment at Luverne Minnesota, Date of Survey: May 12, 1975,
W76-06663 9-13 2G

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W76-06664 9-13 2G

RIZ, T. O.
A Guide to State Programs for the Reclamation of Surface Mined Areas,
W76-09142 9-17 5G

FRIZZOLA, J. A.
Contaminants in Rainwater and Their Relation to Water Quality, Part I,
W76-01769 9-04 5B

Contaminants in Rainwater and Their Relation to Water Quality, Part II,
W76-03445 9-07 5A

FROBEL, R. K.
Investigations of the APAC Water Seepage Barrier,
W76-01115 9-03 8G

FROHLIGER, J. O.
Pittsburgh Rainwater Analysis by Pixe,
W76-07555 9-15 5A

Precipitation: Its Acidic Nature,
W76-00900 9-02 2K

FROHNER, K. R.
An Advanced Seeding Process in Saline Water Conversion,
W76-02540 9-06 3A

FROMM, P. O.
In Vivo Oxygen Toxicity in Invertebrates and Vertebrates,
W76-03016 9-07 5C

FROMMHOLD, I.
The Effect of Silicon Oils on the Water Loss of Hordeum Vulgare L, (In German),
W76-09806 9-18 3B

FRONZA, G.
Reservoir Management Via Reliability Programming,
W76-05508 9-12 4A

FROST, J. E. JR.
North Atlantic Regional Water Resources Study,
W76-00072 9-01 6B

FRUCHT, J.
One Approach to the Superport/Refinery Question,
W76-12578 9-23 5G

FRUH, E. G.
Large-Scale Estuarine Water Quality Matrix Model,
W76-10191 9-19 5B

Large Scale Systems Approach to Estuarine Water Quality Modelling with Multiple Constituents,
W76-12517 9-23 5B

FRUMAN, D. H.
Development of a Batchwise In-situ Regeneration Type Separator to Remove Oil from Oil-Water Suspensions,
W76-09895 9-18 5G

FRUMKIN, N.
Capital Investment for Water Pollution Control At The State and Local Level,
W76-02620 9-06 5G

FRY, E. S.
Absolute Calibration of a Scatterance Meter,
W76-03883 9-08 2L

FRY, J. C.
Distribution of Bdellovibrio Bacteriovorus in Sewage Works, River Water, and Sediments,
W76-09698 9-18 5A

FRYBERGER, J. S.
Subsurface Brine Disposal - Be Reasonable,
W76-09261 9-17 5B

FRYE, D. E.
Measurements of Eddy Diffusivities in Nearshore Regions of Lake Michigan,
W76-12772 9-24 5B

Measurements of Physical Phenomena Related to Power Plant Waste Heat Discharges: Lake Michigan, 1973 and 1974,
W76-12770 9-24 5B

Near Shore Lake Current Investigations,
W76-12774 9-24 5B

FRYE, J.
Oil, Super-Ships and the Oceans,
W76-11985 9-22 5G

FRYER, J. L.
Relation of Water Temperature to Ceratomyxosis in Rainbow Trout (Salmo Gairdneri) and Coho Salmon (Oncorhynchus Kisutch),
W76-12716 9-24 5C

Temperature, Infectious Diseases, and the Immune Response in Salmonid Fish,
W76-11191 9-21 5C

FRYREAR, D. W.
Consider the Plant in Planning Wind Erosion Control Systems,
W76-06928 9-14 4D

FUCHS, H.
Synergistic Effects of Airborne Emissions from Nuclear Power Plants,
W76-09503 9-18 5A

FUCHS, M.
Micro-Climate Effects on Water Use Efficiency by Plants in an Arid Climate,
W76-09480 9-18 3B

FUGE, R.
Trace Metal Concentrations in Fucus from the Bristol Channel,
W76-11719 9-22 5C

FUGGLE, R. W.
UNOX System Pilot Plants-Two Years' Experience with Pure Oxygen in the Activated Sludge Process,
W76-01740 9-04 5D

FUHRBOTER, A.
Large Wave Channel for 'Full Scale-Modeling' of Wave Dynamics in Surf Zones,
W76-09946 9-18 8B

FUHS, G. W.
Effects of Salinity on Nitrification in the East River,
W76-05631 9-12 5C

Effects of Salinity on Nitrification in the East River,
W76-06335 9-13 5C

FUJIE, K.
Waste Water Treatment by Gas Intake Apparatus (Kitai makikomisochi ni yoru haisui shori),
W76-04034 9-09 5D

FUJII, H. K.
Development of the Deep Aeration Tank, (In Japanese),
W76-01437 9-03 5D

FUJII, M.
Closed System for Waste Water in Metal Surface Processing Factory, (In Japanese),
W76-05290 9-11 5D

FUJII, T.
Sequential Treatment of Kraft Pulp Washing Wastewater by Pilot Plant: Activated Sludge Treatment, Lime Treatment, and Activated Carbon Adsorption Treatment (In Japanese),
W76-10854 9-20 5D

FUJIMORI, K.
Liquid Waste Treatment for the Petroleum Refining Industry (Seikiyu seisei ni okeru haisui shori),
W76-07537 9-15 5D

FUJIMOTO, E.
Water Quality Determination Apparatus,
W76-02596 9-06 5A

FUJINO, H.
Reverse Osmosis Separation Apparatus,
W76-05990 9-12 3A

FUJISAWA, T.
Thiuram Polysulfide Heavy Metal Remover,
W76-10466 9-19 5D

FUJITA, H.
Wastewater Treatment System in Steel Mills, (In Japanese),
W76-05311 9-11 5D

FUJITA, M.
Status of Uptake of Mercury by the Fresh Water Diatom, Synedra Ulna,
W76-01913 9-04 5C

FUJITA, Y.
Changes in the Activity of Fucoxanthin-Excited Photosynthesis in the Marine Diatom Phaeodactylum Tricornutum Grown Under Different Culture Conditions,
W76-11712 9-22 5C

Preparation of Activated Sludge and Treatment of Waste Water Therewith,
W76-05028 9-11 5D

FUKADA, T.
Treatment of Wheat Starch Waste By Activated Sludge (2) on the Effect of pH and BOD Loading (Kassei odei ni yoru komugi denpun haisui no shori (2) pH oyobi fukaryo no eikyo),
W76-04294 9-09 5D

FUKAI, R.
Intercalibration of Methods for Radionuclide Measurements on a Seaweed Sample,
W76-08626 9-16 5A

Results of Plutonium Intercalibration in Seawater and Seaweed Samples,
W76-08616 9-16 5A

FUKUDA, K.
PB-210 in Precipitation in Japan and its Implication for Transport of Continental Aersols Across the Ocean,
W76-03385 9-07 5B

FUKUDA, T.
Industrial Research Institute Studying Pollution Problems of Seto Inland Sea,
W76-10031 9-19 5B

FUKUHARA, O.
Studies on the Anesthetic Effects of Eugenol to Kuruma Prawn Juveniles (In Japanese),
W76-01917 9-04 5C

FUKUMORI, R.
Treatment Method for Oil-Containing Liquid Waste (Ganyu haisui shoriho),
W76-08475 9-16 5D

FUKUZUKA, T.
Municipal Waste Water Treatment by Ozone (Ozon ni yoru toshigesui shori),
W76-09025 9-17 5D

FULCHER, M. K.
Interdisciplinary Approach to Geothermal Development,
W76-00070 9-01 4B

FULLE SOLDI, T.
Oscillopolarographic Determination of Cyanide in Waste Electroplating Industrial Effluents,
W76-09822 9-18 5A

FULLER, D. L.
Water Resources of West-Central Missouri,
W76-03401 9-07 7C

FULLER, R. B.
Floatable Breakwater,
W76-01130 9-03 8B

FULLER, R. H.
Evaluation of Copper Accumulation in Part of the California Aqueduct,
W76-02957 9-06 5B

Selected Water-Quality Data from Fallen Leaf Lake, El Dorado County, California, June through October 1974,
W76-05848 9-12 7C

Water Quality in the Mad River Basin, Humboldt and Trinity Counties, California,
W76-08562 9-16 5A

FULLER, R. R.
Effluent Treatment Processes,
W76-02771 9-06 5D

Operating Experience with an Advanced Color Removal System,
W76-02471 9-05 5D

FULLER, W. H.
Management for the Control of Salts in Irrigated Soils,
W76-02679 9-06 3C

Relating Agricultural Instruction to Environment Improvement: The Role of Land and Soil,
W76-12354 9-23 5G

The Use of Carbon Dioxide in Sampling and Preserving Natural Leachates,
W76-11634 9-22 5A

FULLERTON, C. M.
An Analysis of Four Showers with Rainfall Rates > 250 mm/hr,
W76-06907 9-14 2B

FULLERTON, D. G.
Aerobic Stabilization of Waste Activated Sludge - An Experimental Investigation,
W76-02076 9-05 5D

FULLERTON, H. H.
Regional Development: An Econometric Study of the Role of Water Development in Effectuating Population and Income Changes,
W76-03137 9-07 6B

FULTON, G. P.
Alum Recovery and Waste Disposal in Water Treatment,
W76-12399 9-23 5F

Water Plant Waste Treatment: State of the Art, Part II,
W76-09045 9-17 5D

FULTS, D.
Operations Models for Central Valley Project,
W76-07237 9-14 4A

FULTS, D. M.
A Practical Monthly Optimum Operations Model,
W76-06436 9-13 4A

FULUKAWA, Y.
Apparatus for Softening Hard Water,
W76-13147 9-24 5F

FUNK, W. H.
An Integrated Study on the Impact of Metallic Trace Element Pollution in the Coeur D'Alene-Spokane Rivers-Lake Drainage System,
W76-11488 9-21 5C

Study of Silver Lake Eutrophication--Current Problems and Possible Solutions,
W76-04568 9-10 5C

Trees as Environmental Sensors Monitoring Long-Term Heavy Metal Contamination of Spokane River, Idaho,
W76-03320 9-07 5A

FURMAN, R.
Model Ecosystem Studies of Lead and Cadmium and of Urban Sewage Sludge Containing These Elements,
W76-07013 9-14 5C

FURMAN, T. DES.
Feed and Fiber From Effluent-Grown Water Hyacinth,
W76-03551 9-08 5D

FURNARI, G.
Preliminary Note on the Algal Population of the Sciophilous Surface Biotopes in the Exposed Mode, of the Island of Linosa (Strait of Sicily, Italy), (In French),
W76-07952 9-15 2L

FURUKAWA, K.
Incorporation of 203HG into Methylmercury in Fish Liver: Studies in Biochemical Mechanisms in Vitro,
W76-10347 9-19 5C

FURUYA, N.
Water Quality Determination Apparatus,
W76-02596 9-06 5A

FUSEY, P.
Compositions for the Removal of Hydrocarbon and Industrial Waste by Biological Degradation,
W76-03059 9-07 5D

FUTAGAMI, T.
Fem Coupled with LP for Water Pollution Control,
W76-11134 9-21 5B

FYNSK, A. W.
Water-Quality Requirements for the Chemical Industry,
W76-00284 9-01 5D

GABBARD, J. L.
The Effects of a Synthetic Chili Waste on Biological Sewage Treatment Plant Operations,
W76-08845 9-17 5D

GABOVICH, R. D.
Experimental Effect of Boron on Anticarious Action of Fluorine in Drinking Water, (In Russian),
W76-09885 9-18 5F

tudy of Fluorine in the Ukraine and the Endemic Fluorosis Connected Therewith zuchenie ftora na Ukraine i svyazannogo nim ndemicheskogo flyuroza),
V76-03254 9-07 5C

BRIEL, B. C.
pecies Composition, Standing Stock, and Net rimary Production of a Salt Marsh Community in Mississippi,
V76-01164 9-03 2L

BRILEVSKAYA, L. N.
te-Use of Municipal Sewage for Purposes of anitary Protection of Water Bodies, (In Russian),
V76-02614 9-06 5D

BY, W. L.
Evaluation of Health Hazards Associated With Solid Waste/Sewage Sludge Mixtures,
V76-00681 9-02 5E

CS, F.
The Waste-Water and Sludge Re-Use Project by Gamma Irradiation at Kecskemet, Hungary, Some Approaches and Investigations,
W76-09544 9-18 5D

DBERRY, H. M.
Phenoxy Herbicide Residues and Their Persistence,
W76-11151 9-21 5B

DZHIEV, D. A.
Correlated Changes of Enzymatic Activity in Soils of Vertical Zones, (In Russian),
W76-00044 9-01 2G

ERTNER, H.
Qualitative and Quantitative Salmonella Investigations and their Hygienic Valuation in Connection with E. Coli Titre, Demonstrated with Examples from the Coastal Waters of Kiel Bight (Western Baltic Sea), (In German),
W76-13140 9-24 5A

FFNEY, F. B.
Pines on a High Salt Diet,
W76-00154 9-01 3C

HAN, L. W.
Multi-Objective Water Resources Planning: Methodology to Achieve Compatibility Between Environmental Amenities and Economic Development,
W76-05840 9-12 6B

IDAMAKA, V. V.
The Extent of Hazard and the Hygienic Standardization of Isophthalonitrile in Bodies of Water, (In Russian),
W76-12286 9-23 5C

ILIUM, J. J.
Satellite Support to the Hiplex Activities for 1975,
W76-06613 9-13 3B

ILONSKAYA, I. N.
Ecology of Cholera Vibrios, (In Russian),
W76-09409 9-18 5C

INES, F. R.
Hatfield Township, Pennsylvania, Advanced Waste Treatment Plant,
W76-02761 9-06 5D

INES, S. E.
The International Law Aspects of the Garrison Diversion Project,
W76-06053 9-12 6E

GAIRON, S.
Water Flux and Electrical Potentials in Water-Saturated Bentonite,
W76-05269 9-11 2G

GAITHER, W. S.
A Public Authority to Manage the Atlantic Outer Continental Shelf,
W76-11097 9-20 6E

GAJBHIYE, N. G.
Influence of Hydraulic Trough and Lateral Joints on the Groundwater Potential of the Massive Trap Unit at Tanoria in Shajapur District (MP),
W76-09614 9-18 4B

GAJDUSEK, J.
Improved Formazan Test for the Determination of the Dehydrogenase Activity of Activated Sludge in Waste Water Treatment Plants for the Joint Biological Purification of Urban and Tannery-Generated Waste Waters (Verfeinerter Formazantest der Dehydrogenasenaktivitaet von Belebtschlaemmen In Anlagen zur Gemeinsamen Biologischen Reiningung von Gerbereiabwaessern und Staedtischen Abwaessern),
W76-07518 9-15 5D

GAK, D. Z.
Bacterioplankton and its Significance in the Bioproductivity of the Reservoirs, (In Russian),
W76-10969 9-20 5C

GALBEN, T.
Rapid Determination of NO3 in Water, (In Romanian),
W76-11559 9-21 5A

GALBRAITH, R.
Subtidal Marine Biology of California, with Emphasis on the South,
W76-06023 9-12 2L

GALE, N.
Water Resources Problems and Solutions Associated with the New Lead Belt of S.E. Missouri,
W76-06948 9-14 5G

GALE, R. D.
Canyon Creek Management Analysis,
W76-02242 9-05 4C

GALE, R. M.
Industrial Water Resources of Canada; Hudson Bay, Labrador and Arctic Drainage Basins, 1959-1965,
W76-04163 9-09 3E

GALE, R. S.
Evaluation of the Ciria Prototype Model for the Design of Sewage-Treatment Works,
W76-10245 9-19 5D

GALE, W. F.
A Suction Sampler for Quantitatively Sampling Benthos on Rocky Substrates in Rivers,
W76-01905 9-04 7B

Ultrasonic Removal of Epilithic Algae in a Barclamp Sampler,
W76-12939 9-24 5A

GALE, W. K. V.
Waste Water Control in Modern Galvanizing Plants (Abwasserkontrolle in Modernen Verzinkungsanlagen),
W76-04041 9-09 5D

GALGALI, V. G.
Simulation of Delta Building Process,
W76-10426 9-19 2L

GALIEV, N. A.
Effect of Hardening on the State of Water in Seedlings of Winter Cultures, (In Russian),
W76-09095 9-17 2I

GALIL, N.
Use of Jet Pumps in Marine Waste Disposal,
W76-03379 9-07 5E

GALINA, G.
The Helical Bend Combined Sewer Overflow Regulator,
W76-07246 9-14 5D

GALINATO, G. D.
Socioeconomic Analysis of a Major Rehabilitation of Irrigation and Water Management Systems in Eastern Idaho,
W76-06161 9-13 3F

GALKIEWICZ, R. C.
Applications of Linear Time Series Models and Stepwise Regression Models to Selected Water Quality Data on the Connecticut River,
W76-06157 9-13 5B

GALL, R. J.
Sequential Chlorination -- Impact on the Environment,
W76-10860 9-20 5D

GALLAGHER, B.
An Assessment of the Expected Impact of a Dredging Project Proposed for Pala Lagoon, American Samoa,
W76-06654 9-13 6G

GALLAGHER, B. J.
Water Quality Effects of a Dredging Disposal Area,
W76-08749 9-16 5C

GALLAGHER, D. R.
Price-Investment Policies of Urban Water Authorities,
W76-01422 9-03 6C

GALLAGHER, R. H.
Steady Stratified Circulation in a Cavity,
W76-08136 9-16 2H

GALLAWAY, B. J.
Seasonal Abundance and Distribution of Marine Fishes at a Hot-Water Discharge in Galveston Bay, Texas,
W76-12718 9-24 5C

GALLEGO, J. G.
Study of Oceanographic Conditions in the Arosa Estuary in Water, (In Spanish),
W76-07948 9-15 2L

GALLGHER, J. L.
Detritus Production in Coastal Georgia Salt Marshes,
W76-08688 9-16 5C

GALLICIA, F.
Oil Separation and Recovery Method,
W76-06480 9-13 5G

GALLOWAY, F. M.
Criteria for the Use of Vertical Averaging in Great Lakes Dispersion Models,
W76-02156 9-05 2H

GALLOWAY, F. M. JR.
Criteria for the Use of Vertical Averaging in Environmental Dispersion Models,
W76-02155 9-05 2H

Investifation of Vertical Mixing in the Dispersion of Pollutants in Lake Erie,
W76-02152 9-05 5B

GALLOWAY, J. A.
An Integrated Power Process Model of Water Use and Wastewater Treatment in Chlorine Caustic Production,
W76-10621 9-20 5D

GALLUP, J. D.
Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Apple, Citrus, and Potato Processing Segment of the Canned and Preserved Fruits and Vegetables Point Source Category,
W76-01216 9-03 5G

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Leather Tanning and Finishing Point Source Category,
W76-01816 9-04 5D

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Textile Mills Point Source Category,
W76-01207 9-03 5D

GALLUZZO, J. F.
Automatic Sewer Sampling System Monitors for Spills,
W76-03696 9-08 5A

GALSTYAN, R. A.
Comparative Evaluation of Food Plants of the Ararat Cochineal Scale (Porphyrophora Hamelii) (In Russian),
W76-09406 9-18 2I

GALYANOVA, N. V.
Rapid Determination of the Cod of Effluents (Uskorennoe opredelenie KhPK stochnykh vod),
W76-05705 9-12 5A

GAMAYUNOV, N. I.
Study of Water Sorption on Biopolymers, (In Russian).
W76-11532 9-21 2K

GAMBARYAN, M. E.
Rearing the Sevan Trout at the Aigerlich Trout Pond Fishery, (In Armenian),
W76-08371 9-16 2I

GAMBLE, E. E.
Nitrogen Movement in a Shallow Aquifer System of the North Carolina Coastal Plain,
W76-04099 9-09 5B

Thick BH Horizons in the North Carolina Coastal Plain: I. Morphology and Relation to Texture and Soil Ground Water,
W76-06402 9-13 2G

Thick BH Horizons in the North Carolina Coastal Plain: II: Physical and Chemical Properties and Rates of Organic Additions from Surface Sources,
W76-06403 9-13 2G

GAMBLE, H. B.
Economics of Water Supply Planning and Management,
W76-01802 9-04 6B

GAMBLE, J. F.
Aspects of Mineral-Nutrient Cycling in a Southern Mixed-Hardwood Forest in North Central Florida,
W76-10318 9-19 5B

Base-Line Data on Everglades Soil-Plant Systems: Elemental Composition, Biomass, and Soil Depth,
W76-10314 9-19 5C

GAMBOLATI, G.
Transient Free Surface Flow to a Well: An Analysis of Theoretical Solutions,
W76-08333 9-16 2F

GAMES, L. M.
Isotopic and Quantitative Analysis of the Major Carbon Fractions in Natural Water Samples,
W76-04757 9-10 5A

GANDHI, S. L.
System for Total Direct Recycle of Secondary Municipal Wastewater, Vol I -- Design Concepts,
W76-10257 9-19 5D

GANDIKOTA, M.
Titration of Antimony (III) with Cerium (IV) Sulphate and Diphenylamine and its Derivatives as Reversible Indicators,
W76-09040 9-17 5A

GANDOLFI, G.
First Results on Artificial Reproduction of Bass, Morone Labrax (L.), Reared in Brackish Water, (In Italian),
W76-07298 9-14 2L

GANDON, R.
Determination of Radionuclides of Ce, Co, Fe, Ru, Zn and Zr in Seawater by Preconcentration of Colloidal Manganese Dioxide, Application to the Determination of Low Level Ruthenium 106,
W76-08618 9-16 5A

GANF, G. G.
Phytoplankton Biomass and Distribution in a Shallow Eutrophic Lake (Lake George, Uganda),
W76-06246 9-13 5C

GANGOLI, N.
Fly Ash - A Potential Asset in Wastewater Treatment,
W76-11274 9-21 5D

GANGSTAD, E. O.
Aquatic Plant Control Program for Alligator Weed and Water Hyacinth in Texas,
W76-11147 9-21 5G

Biological Control of Alligator Weed,
W76-01495 9-03 4A

Impact Statement for the Aquatic Plant-Control Program-State of Texas,
W76-11146 9-21 6G

Response of Water-Hyacinth to Laser Radiation,
W76-12406 9-23 4A

GANGWAR, M. S.
Zinc Nutrition of Rice in Relation to Iron and Manganese Uptake Under Different Water Regimes,
W76-08974 9-17 3F

GANICHEVA, L. Z.
Seasonal Dynamics of Suspended Matter in the Azov Sea, (In Russian),
W76-10126 9-19 2J

GANIN, G. I.
Mechanism of Conversion of Lignin and its Derivatives in Natural Waters (Mekhanizm prevrashcheniya lignina i ego proizvodnykh v prirodnoj vode),
W76-09280 9-17 5B

GANN, E. E.
Water Resources of West-Central Missouri,
W76-03401 9-07 7C

GANNEAU, M.
The Sewers of Paris (Les Egouts de Paris),
W76-01293 9-03 5D

GANNON, J. E.
The Crustacean Zooplankton of Green Bay, Lake Michigan,
W76-11278 9-21 2H

GANNON, J. J.
Airborne Coliphages from Wastewater Treatment Facilities,
W76-12921 9-24 5A

GANNON, R.
The Untapped Underground Sea of Pure Water,
W76-12022 9-22 4B

GANZ, C. R.
Accumulation and Eliminating Studies of Four Detergent Fluorescent Whitening Agents in Bluegill (Lepomis Macrochitus),
W76-00318 9-01 5A

Removal of Detergent Fluorescent Whitening Agents from Waste Water,
W76-05804 9-12 5D

GANZINOTTI, J. V.
Inflatable Water-Retaining Barrier,
W76-06462 9-13 8A

GARASEVICH, I. G.
Winter Hydrochemical Conditions of Small Rivers in the Polesye of the Ukrainian SSR (The Pripyat Basin), (In Russian),
W76-12303 9-23 5C

GARAY, H. L.
Distributed Parameter Identification of Groundwater Systems by Nonlinear Estimation,
W76-11957 9-22 2F

GARBE, C. W.
Demonstration of a Methodology for Dredged Material Reclamation and Drainage,
W76-02945 9-06 5E

GARBER, D. C.
Guniting Restores A Sewer,
W76-03193 9-07 8F

GARBER, M. S.
Factors Affecting Declining Water Levels in a Sewered Area of Nassau County, New York,
W76-13084 9-24 5B

GARCIA, A. W.
Effect of Source Orientation and Location in the Aleutian Trench on Tsunami Amplitude Along the Pacific Coast of the Continental United States,
W76-07464 9-15 8B

ype 16 Flood Insurance Study: Tsunami Pre-ctions for Monterey and San Francisco Bays id Puget Sound,
'76-07456 9-15 6F

RCIA DIAZ, C.
Numerical Model of the Circulation in Cien-iegos Bay, Cuba,
'76-03374 9-07 2L

RCIA, G.
evegetating Devastated Sites in New Mexico ith Western Wheatgrass Transplants,
'76-12161 9-23 4C

RCIA, M.
tandardization of Methods for the Determina-ion of Traces of Some Volatile Chlorinated liphatic Hydrocarbons in Air and Water by as Chromatography,
'76-09287 9-17 5A

RCIA, M. N.
ffecto De La Temperatura De Aclimatacion obre La Proliferacion De Precursores ritropoyeticos En Carassius Auratus, (The Ef-ect of Acclimation Temperature on Prolifera-ion of Erythropoietic Precursors in Carrassius uratus and on the Uptake of Tritiated hymidine in Haematopoietic and Intestinal issue),
W76-09509 9-18 5C

RDE, R. J.
Shear Distribution in Bends in Rectangular Channels,
W76-00552 9-02 8B

RDINER, E. R.
Use of a Mobile Laboratory for Pollution De-tection,
W76-00611 9-02 5A

RDINER, W. C.
Present and Future Requirements of the Chlor-Alkali Industry for Effective Pollution Control,
W76-03497 9-07 5D

RDNER, B. D.
Agriculture and Salinity Control in the Colorado River Basin.
W76-04565 9-10 5G

RDNER, B. R.
Fertilization, Nutrient Composition, and Yield Relationships in Irrigated Spring Wheat,
W76-10177 9-19 3F

RDNER, C. G.
Nuclear Magnetic Resonance Sensors for Moisture Measurement in Roadways,
W76-12458 9-23 2G

RDNER, C. R.
Membrane Processes for Water Treatment, Conclusion,
W76-00241 9-01 3A

RDNER, G. R.
Chemically Induced Lesions in Estuarine or Marine Teleosts,
W76-04045 9-09 5C

Morphological Anomalies in Adult Oysters, Scallop, and Atlantic Silversides Exposed to Waste Motor Oil,
W76-00138 9-01 5C

RDNER, J. S.
Public Evaluation of Water Quality and Its Impact on Recreation: A Case from Iowa,
W76-13050 9-24 5G

GARDNER, L. R.
Chemical and Sediment Budgets for a Small Tidal Creek, Charleston Harbor, S. C.,
W76-01511 9-04 5B

GARDNER, L. W.
The Detection and Mapping of Subterranean Water Bearing Channels--Phase II,
W76-05129 9-11 4B

Detection of Incipient Failure in Earth Dams,
W76-07671 9-15 8D

GARDNER, N.
The Desert War on Pollution,
W76-09711 9-18 5D

GARDNER, N. R.
Yeasts Isolated from Some Lakes and Rivers of Saskatchewan,
W76-06135 9-12 5B

GARDNER, W. R.
Model for Predicting Simultaneous Movement of Nitrate and Water Through a Loamy Sand,
W76-12985 9-24 5B

GARDNER, W. S.
Concentrations of Total Mercury and Methyl Mercury in Fish and Other Coastal Organisms: Implications to Mercury Cycling,
W76-10283 9-19 5B

River Input of Inorganic Phosphorus and Nitrogen to the Southeastern Salt-Marsh Estuarine Environment,
W76-10286 9-19 5C

The Role of Amino Acids in the Nitrogen Cycle of Lake Mendota,
W76-01654 9-04 5C

GARETH, E. B.
The Eradication of the Seaweed Sargassum Muticum from Britain,
W76-09989 9-18 5G

GARGETT, A. E.
An Investigation of the Occurrence of Oceanic Turbulence with Respect to Finestructure,
W76-07773 9-15 2L

GARIBOV, I. M.
A Combined Method for the Purification of Fluorine from Industrial Waste Waters Generated by a Superphosphate Producing Plant (Kombinirovannyy metod ochistki ftora iz proizvodstvennykh stochnykh vod superfosfatnogo zavoda),
W76-02305 9-05 5D

Sorption Method for the Purification of Petroleum Containing Waste Waters (Sorbtsionnye netody ochistki neftesoderzhashchikh stochnykh vod),
W76-05489 9-11 5D

GARKAVAYA, G. P.
Variations in the Hydrochemical Regime of the Coastal Waters in Winter Influenced by Macrophytes, (In Russian),
W76-03305 9-07 5C

GARLAND, G.
Dumps: A Potential Threat to Ground Water Supplies,
W76-00487 9-01 5B

GARLAND, J. H. N.
Effects of Storm Discharges on River Water Quality,
W76-09401 9-18 5B

GARLAND, T. R.
The Ecological Behavior of Plutonium and Americium in a Freshwater Ecosystem: Phase II, Implications of Differences in Transuranic Isotopic Ratios,
W76-07480 9-15 5C

GARLAUSKAS, A. B.
Water Quality Baseline Assessment for Cleveland Area - Lake Erie, Volume I - Synthesis,
W76-01500 9-03 5B

GARMAN, W. H.
Agriculture and Nature's Nutrient Cycles,
W76-04422 9-09 5C

Agriculture's Place in the Environment: Considerations for Decision Making,
W76-00988 9-02 5C

GARNER, B.
Odor Intensities at Cattle Feedlots,
W76-00919 9-02 5A

GARNER, G.
Nature and History of the Nitrate Problem,
W76-01033 9-03 5B

GARNER, G. B.
A Lagoon-Grass Terrace System to Treat Swine Waste,
W76-07198 9-14 5D

GARNER, J. M.
The Red Sea Lights Agreement: Another Instance of International Cost-Sharing,
W76-07366 9-14 6E

GAROFALO, D.
An Aerial-Photogrphic Analysis of the Environ'mental Impact of Clay Mining in New Jersey,
W76-04092 9-09 5A

GARRET, W. P.
The Surface Activity of Petroleum and its Influence on the Behavior of Oil at Sea,
W76-11011 9-20 5B

GARRETT, C. J. R.
Upwelling Along the Yarmouth Shore of Nova Scotia,
W76-06688 9-13 2L

GARRETT, J.
Quality of Water Considerations in Arid Area Water Management,
W76-10608 9-20 5B

GARRETT, R. H.
Drip Irrigation Tap and System,
W76-03514 9-08 3F

GARRISON, C. B.
Measuring and Minimizing the Social Cost of Environmental Pollution,
W76-05824 9-12 5G

GARRISON, C. J.
Wave Forces on Bottom-Mounted Large-Diameter Cylinder,
W76-06395 9-13 8B

GARRISON, R. L.
Method of Destroying Cyanides,
W76-03517 9-08 5D

Ozone-Based System Treats Plating Effluents,
W76-04039 9-09 5D

GARSIDE, C.
The Environmental Impact of Deep-Sea Mining,
W76-10602 9-20 5G

GARTEN, C. T.
Distribution of Radiocesium in Vegetation Along a Contaminated Stream,
W76-10300 9-19 5B

Radiocesium Levels in Vegetation Colonizing a Contaminated Flood Plain,
W76-10298 9-19 5C

Seasonal Variation in Radiocesium Concentrations in Three Tree Species,
W76-10299 9-19 5C

GARTEN, C. T. JR.
Thermal Ecology of Dragonflies in Habitats Receiving Reactor Effluent,
W76-08881 9-17 5C

GARTMAN, D. K.
Re-Evaluation of the Effects of Man-Made Modifications on Gordon Creek Between 1887 and 1973 and Especially as Regards its Fish Fauna,
W76-09407 9-18 4C

GARTNER, W. J.
Water Purification Device,
W76-01725 9-04 5F

GARTON, J. E.
Automated Pond Water Treatment Unit,
W76-11340 9-21 5F

GARTON, W. A.
South Dakota's System of Water Management and its Relation to Land Use and Economic Development,
W76-10721 9-20 4A

GASANOV, SH. G.
Some Historical Data on the Antiquity of Soil Irrigation in the Azerbaijan SSR, (In Russian),
W76-12917 9-24 3F

GASIOREK, J.
Investigations on the Microbial Reduction of Sulphates,
W76-05054 9-11 5D

GASKIN, D. A.
Prevention and Control of Culvert Icing, Summary Report on Studies FY 1966-70,
W76-06193 9-13 8A

GASPAR, S.
Diffusivity of Water in A Non-Saturated Heterogeneous Environment, (In French),
W76-07290 9-14 2G

GASPARINI, R.
Regulations and Environmental Investigations Associated with Nuclear Station Thermal Discharges,
W76-08886 9-17 5G

GASPERINO, A. F.
The Relationship of Laboratory Algal Assays to Measurements of Indigenous Phytoplankton in Long Lake, Washington,
W76-06700 9-13 5C

Response of the Spokane River Periphyton Community to Primary Sewage Effluent and Continued Investigation of Long Lake,
W76-05468 9-11 5C

GASS, T. E.
Dealing with Oil Spillage Contamination,
W76-03522 9-08 5G

Fundamental Geologic Principles,
W76-09362 9-17 7C

Ground Water Movement,
W76-13031 9-24 4B

Guardians of Ground Water Quality,
W76-10096 9-19 5G

History of Ground Water Concepts,
W76-05551 9-12 2F

History of Ground Water Development,
W76-05556 9-12 4B

Science vs. Mysticism,
W76-03762 9-08 6B

Using Fracture Traces to Locate Water Wells,
W76-11916 9-22 8G

GASSER, A.
Process for Separating Oil from Emulsions of Oil in Water,
W76-05964 9-12 5D

GAST, M.
Acute and Chronic Toxicity of Copper to the Fathead Minnow in a Surface Water of Variable Quality,
W76-08783 9-17 5C

GAST, R. G.
Carbon Contents of Surface and Underground Waters in South-Central Minnesota,
W76-12202 9-23 5A

GAST, W. W.
Urban Stormwater Management--Problems, Solutions and Impact: A Summary of Interviews,
W76-09752 9-18 4C

GATES, C. D.
A Critical Study of Flood Protection Planning in the Susquehanna River Basin: 1936-1972,
W76-08846 9-17 6F

Influence of Land Development and Land Use Patterns on Water Quality,
W76-02637 9-06 5B

GATES, G.
Effects of Water Quality on the Recreational Use of Water in South East Texas,
W76-11335 9-21 5G

GATES, M.
Optimum Size of Equipment,
W76-03161 9-07 8G

GATTI, G.
Sewage Treatment Method and Apparatus,
W76-11835 9-22 5D

GATTO, L. W.
Applications of ERTS-1 Imagery to Terrestrial and Marine Environmental Analyses in Alaska,
W76-02049 9-05 7B

Arctic and Subarctic Environmental Analyses Utilizing ERTS-1 Imagery,
W76-08510 9-16 2C

GATZ, D. F.
Pollutant Aerosol Deposition into Southern Lake Michigan,
W76-12935 9-24 5B

GATZ, J. L.
Improvement of Core Drill Methods,
W76-08419 9-16 8D

GAUCH, H. G.
Sodium and Chloride Concentrations in Native Vegetation Near Chalk Point, Maryland,
W76-04819 9-10 5B

GAUDARD, Y.
Means for Showing and/or Detouring Water Currents and the Preparation Thereof,
W76-07432 9-14 8

GAUDET, J-L.
Bibliography on Nutritional Requirements of Warm Water Fishes (Bibliographie Sur Les Besoins Nutritifs Des Poissons Vivant en Eaux Chaudes),
W76-01915 9-04 2

GAUDET, M.
Blood and Liver Enzymes in Rainbow Trout (Salmo Gairdneri Rich) with Emphasis on Their Diagnostic use: Study of CC14 Toxicity and a Case of Aeromonas Infection,
W76-03034 9-07 5C

GAUDY, A. E. JR.
Biological Treatment of Waste with High Ash Content Using a Hydrolytically Assisted Extended Aeration Process,
W76-10231 9-19 5D

GAUDY, A. F. JR.
Prediction of Assimilation Capacity in Receiving Streams, Part I,
W76-00600 9-02 5B

Prediction of Assimilation Capacity in Receiving Streams, Part II,
W76-00601 9-02 5B

Response of Activated Sludge to Quantitative Shock Loading,
W76-11201 9-21 5D

GAUFIN, A.
An In-Situ Study of the Sutrition of Lake Zooplankton Using Carbon 14 and Phosphorous 32, Flathead Lake, Montana,
W76-04231 9-09 5C

GAUFIN, A. R.
Acute Cadmium Toxicity Studies Upon Nine Species of Aquatic Insects,
W76-10342 9-19 5C

Life History and Ecology of Megarcys Signata (Plecoptera: Perlodidae), Mill Creek, Wasatch Mountains, Utah,
W76-10887 9-20 2I

Synergism Between Dissolved Oxygen and Cadmium Toxicity in Five Species of Aquatic Insects,
W76-10345 9-19 5C

GAUGHAN, M. K.
The Theory of Wave Propagation in Water of Gradually Varing Depth and the Prediction of Breaker Type and Height,
W76-00557 9-02 2L

GAUGHN, P. J.
Water Treatment--Technique for Energy Conservation,
W76-05438 9-11 5F

GAUNTLETT, D. J.
Numerical Methods for Predicting Precipitation in Catchment Hydrology,
W76-04129 9-09 2B

GAUNTLETT, R. B.
Nitrate Removal from Water by Ion Exchange,
W76-05806 9-12 5F

GAUSE, S. C.
Impact of Production-Reactor Effluents on Vegetation in a Southeastern Swamp Forest,
W76-03486 9-07 5C

ISMAN, H. W.
ooding Effects on Light Reflectance, Transittance, and Absorptance of Cotton Gossypium Hirsutum) Leaves,
'76-06794 9-13 2I

JTHIER, M.
tudy of the Dispersion of Bacteriophages in a atural Marine Environment, (In French),
'76-06691 9-13 5B

se of A Trophodynamic Chain of the Benthic ype for the Study of Transfers of Metallic ollutants, (In French),
'76-10944 9-20 5C

Y, P. J.
oating Immersed Concrete for Swimming ools and Sewage Installations,
'76-06987 9-14 8F

YLER, R.
everse Osmosis Apparatus,
'76-04286 9-09 3A

YLORD, D. R.
ediments Exposed on the Surface of the Ross ce Shelf, Antarctica,
'76-06188 9-13 2C

YNOR, J. D.
Chemical and Plant Extractability of Metals nd Plant Growth on Soils Amended with Sludge,
W76-12929 9-24 5B

ARHEART, R. A.
Separation of Algae Cells from Wastewater Lagoon Effluents by Soil Mantle Treatment,
W76-05321 9-11 5D

BELEIN, C. D.
Sedimentation Processes Involving Hydrocarbons in the Marine Environment,
W76-11012 9-20 5B

BHARD, T. G. JR.
Conjunctive Availability of Surface and Ground Water in the Albuquerque Area, New Mexico: A Modelling Approach,
W76-02936 9-06 4B

A Socio-Economic Evaluation of Alternative Water Management Policies on the Rio Grande in New Mexico,
W76-06644 9-13 6B

BHART, G.
Fish Growth Response to Mechanical Mixing of Lake Arbuckle, Oklahoma,
W76-07587 9-15 5C

CKLER, J. R.
Acute and Chronic Toxicity of Copper to the Fathead Minnow in a Surface Water of Variable Quality,
W76-08783 9-17 5C

DDES, G.
Which Pump.
W76-00416 9-01 8C

ESY, G. G.
Some Physiological Effects of Near-Maximum Growth Temperatures on an Obligately Psycrophilic Marine Bacterium,
W76-12681 9-24 5C

FFERTH, K.
Several Hydrobiological Problems of Ground Water Storage in Metropolitan Water Works (Budapest): I, (In German),
W76-12258 9-23 5F

GEHRMAN, F. H.
Wave Forces on Bottom-Mounted Large-Diameter Cylinder,
W76-06395 9-13 8B

GEHRS, C. W.
Investigating the Effects of Chlorinated Organics,
W76-12892 9-24 5C

Vertical Movement of Zooplankton in Response to Heated Water,
W76-03483 9-07 5C

GEIGER, H.
Drainage Body and Biological Film Support,
W76-02851 9-06 5D

GEIGER, R. A.
Radiocesium Levels in Vegetation Colonizing a Contaminated Flood Plain,
W76-10298 9-19 5C

GEISMAN, J. R.
Recycling Brine From Pickling,
W76-02782 9-06 5D

Recycling Spent Cucumber Pickling Brines,
W76-04732 9-10 5D

GEISSEL, L.
Comparative Toxicity of Larval Lampricide (TFM: 3-Trifluoromethyl-4-Nitrophenol) To Selected Benthic Macroinvertebrates,
W76-02330 9-05 5C

GELB, P. M.
Benefits from Water Pollution Abatement, Property Values,
W76-10580 9-20 5G

GELDREICH, E. E.
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W76-12869 9-24 5A

GELLEN, J.
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GELLMAN, I.
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W76-00047 9-01 5D

Status of Water Pollution Control in the Soviet Union,
W76-05714 9-12 5G

GELLMAND, I.
The Status of Water Pollution Control in the Soviet Union, (First Part),
W76-05483 9-11 5D

The Status of Water Pollution Control in the Soviet Union, (Second Part),
W76-05484 9-11 5D

GENCO, J. M.
Review of Landspreading of Liquid Municipal Sewage Sludge,
W76-02658 9-06 5D

Sodium Sulfur Oxides Wastes Disposal Process,
W76-13143 9-24 5D

GENE, R.
On the Universality of the Poole and Atkins Secchi Disk-Light Extinction Equation,
W76-06737 9-13 5A

GENETELLI, E. J.
Economic Considerations for Planning Sewage Sludge Disposal Systems,
W76-05083 9-11 5E

GENIN, V. A.
Removal of Benzidine from Industrial Waste Waters, (Dekantserogenizatisiya promyshlennykh stochnykh vod, soderzhashchikh benzidin),
W76-02311 9-05 5D

GENOT, J.
Techniques for Dispersing and Dissolving Ozone in Water/Part I,
W76-07035 9-14 5F

GENOWAY, R. G.
Preliminary Studies on the Effect of Fatigue on Thermal Tolerance of Rainbow Trout,
W76-03475 9-07 5C

Resistance of a Northwestern Crayfish, Pacifastacus Leniusculus (Dana) to Elevated Temperatures,
W76-01907 9-04 5C

Resistance of Crayfish to Acute Thermal Shock: Preliminary Studies,
W76-03471 9-07 5C

GENTRY, J. B.
Effect of Thermal Effluents from Nuclear Reactors on Species Diversity of Aquatic Insects,
W76-03492 9-07 5C

Effect of Thermal Stress on Dragonfly Nymphs,
W76-03470 9-07 5C

Seasonal Variation in Radiocesium Concentrations in Three Tree Species,
W76-10299 9-19 5C

Thermal Ecology of Dragonflies in Habitats Receiving Reactor Effluent,
W76-08881 9-17 5C

GENTZSCH, E. P.
Nitrate Occurrence in Some Soils with and Without Natric Horizons,
W76-00836 9-02 2G

GEORGE, C. J.
Agricultural Drought of 1972 Kharif Season,
W76-06681 9-13 2B

GEORGE, D.
Radiation Treatment of Wastes, A Review,
W76-09517 9-18 5D

GEORGE, D. G.
Population Dynamics and Production of Daphnia Hyalina in a Eutrophic Reservoir,
W76-11457 9-21 5C

GEORGE, H.
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W76-01527 9-04 5G

GEORGE, H. D.
Ims-Grangcold Pelletizing System for Steel Mill Wastes Material,
W76-08491 9-16 5D

GEORGE, J. A.
Development of a Nitrogen Balance in a Laboratory Soil Profile with a Heavy Application of Beef Cattle Wastes,
W76-00425 9-01 5B

GEORGE, J. F.
Fourmile Run Local Flood-Control Project, Alexandria and Arlington County, Virginia; Hydraulic Model Investigation,
W76-07469 9-15 8B

GEORGE, P. F.
Desalination Materials Manual,
W76-06801 9-14 3A

GEORGE, P. R.
Managing a Successful Liquid Swine Manure Management System,
W76-07180 9-14 5D

GEORGE, R. Y.
Potential Effects of Oil Drilling and Dumping Activities on Marine Biota,
W76-08907 9-17 5C

GEORGE, S. G.
A Comparison of Trace-Metal and Metalloenzyme Profiles in Different Molluscs and During Development of the Oyster,
W76-10334 9-19 5C

GEORGESON, D. L.
Underground Storage of State Water Project Supply, A Progress Report,
W76-11119 9-21 4B

GER, A. M.
Comparison of Single-Point Injections in Pipe Flow,
W76-12971 9-24 8B

GERBA, C. P.
Fate of Wastewater Bacteria and Virsuses in Soil,
W76-03251 9-07 5B

Viruses in Water: The Problem, Some Solutions,
W76-07006 9-14 5A

Wastewater Renovation and Reuse: Virus Removal by Soil Filtration,
W76-10219 9-19 5D

GERBA, J.
Managing the Environment,
W76-01597 9-04 6G

GERBER, H. B.
Activated Sludge Process with Alum Addition and Heat Treatment,
W76-09456 9-18 5D

New York Takes Another Giant Step,
W76-09710 9-18 5D

GERBER, M. A.
New Diatomite Filter Solves Cooling and Wash Water Problems for Plastic Molding Operation,
W76-04210 9-09 5D

GERBER, V. YA.
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W76-07519 9-15 5D

GERBIG, B. H.
Detecting Saline Soils in the Red River Valley, Minnesota,
W76-02905 9-06 2G

GERGIS, M.
Experimental Crude Oil Spills on a Small Subarctic Lake in the Mackenzie Valley, N.W.T.: Effects on Phytoplankton, Periphyton, and Attached Aquatic Vegetation,
W76-00142 9-01 5C

GERHOLD, R. M.
Algal Nutritional Bioassays of Lake Wylie, North Carolina.
W76-06703 9-13 5C

GERIKE, P.
Waste Water Problems of Desizing With Respect to Legislative Measures (Abwasserprobleme Beim Entschlichten Unter Berucksichtigung Gesetzgerberischer Massnahmen),
W76-04031 9-09 5D

GERKE, D.
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W76-00700 9-02 6B

GERKING, S. D.
Laboratory and Field Tests of Temperature Tolerance on Gambusia A. Affinis, the Western Mosquitofish,
W76-08798 9-17 5C

GERLACH, T.
Geothermal Water Resources in Arizona: Feasibility Study,
W76-04005 9-09 4B

GERLACH, T. M.
A Preliminary Analysis of the Energy and Water Requirements for Developing Geothermal Energy in Arizona,
W76-00750 9-02 6D

GERLOFF, G. C.
Green Bay Self-Purifies Algal Nutrients,
W76-00615 9-02 5C

GERM, J. C.
Chemistry of Effervescing Groundwater from Municipal Wells, Flagstaff, Arizona,
W76-02749 9-06 4B

GERMANA, A.
Multistage Flash Evaporator for Producing Soft Water from a Saline Water,
W76-05978 9-12 3A

GERSHON, S. I.
A Planning Study on Dairy Wastes Management,
W76-07175 9-14 5D

GETMAN, J. H.
Development of a Sea-Ice Thickness Gage--An Attempt to Use Shear Waves,
W76-04320 9-09 2C

GEVAUDAN, P.
Disinfection of Urban Sewage Sludge (La Desinfection Des Bous Residuaires Urbaines),
W76-09007 9-17 5D

GEYER, J. C.
Water Use in Selected Commercial and Institutional Establishments in the Baltimore Metropolitan Area,
W76-05452 9-11 6D

GHATE, S. R.
Predicted Versus Measured Drainable Porosities,
W76-13019 9-24 4A

GHEORGHE, M.
Hydrobiological Observations on the River Rau Doamnei (District Arges), (In Romanian),
W76-07310 9-14 5C

GHILDYAL, B. P.
Evaporation Characteristics of Three Fine-Textured Tarai Soils Under Various Evaporation Potentials,
W76-06037 9-12 2D

Thermal Properties of Fine Textured Mollisols Under Varying Moisture Conditions,
W76-08364 9-16 2G

GHOSH, B. N.
A Township's Need of Filtered Water,
W76-00641 9-02 3D

GHOSH, K.
Control of Surfactant Pollution,
W76-00273 9-01 5F

GHOSH, M. M.
Physicochemical Approach to Water and Wastewater Filtration,
W76-02873 9-06 5D

GHOSH, S.
Anaerobic Processes, (Literature Review),
W76-12673 9-23 5D

GIACCONE, G.
Preliminary Note on the Algal Population of the Sciophilous Surface Biotopes in the Exposed Mode, of the Island of Linosa (Strait of Sicily, Italy), (In French),
W76-07952 9-15 2L

GIAM, C. S.
Problems in Analyses of Organic Pollutants in Open-Ocean Samples,
W76-11239 9-21 5A

Toxicity of Polychlorinated Biphenyls (Aroclor 1254) to Adult, Juvenile and Larval Stages of the Shrimp Palaemonetes Pugio,
W76-10075 9-19 5C

GIANI, N.
Description of a New Type of Corer for Very Fluid Sediments, (In French),
W76-07282 9-14 2J

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W76-09347 9-17 2J

GIANNINI, A. P.
The Basic Electric Cell in Effluent Treatment,
W76-03534 9-08 5D

GIBB, D. F.
Microbial Interaction with Oil in the Marine Environment,
W76-11015 9-20 5C

GIBB, J. P.
Public Groundwater Supplies in Lake County,
W76-12824 9-24 4B

3B, O.
Water Resources Planning,
W76-01328 9-03 6B

3BONS, J. W.
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W76-03481 9-07 5C

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W76-08870 9-17 5C

Enhanced Growth and Increased Body Size of Turtles Living in Thermal and Post-Thermal Aquatic Systems,
W76-03482 9-07 5C

Growth and Condition of Juvenile Largemouth Bass from a Reservoir Receiving Thermal Effluent,
W76-03480 9-07 5C

Impact of Production-Reactor Effluents on Vegetation in a Southeastern Swamp Forest,
W76-03486 9-07 5C

BBS, A. E.
Systems Simulation as a Tool for Water Resource Planning, Including Qualitative Aspects,
W76-12551 9-23 4A

BBS, C. V.
System for Regulation of Combined Sewage Flows,
W76-01057 9-03 5D

BBS, R. A.
Direct Spectropolarimetric Determination of Molybdenum (VI) With D-(-)-1,2-Propylene Diamine- Tetraacetic Acid,
W76-02883 9-06 5A

BBS, R. J.
Amazon River Sediment Transport in the Atlantic Ocean,
W76-04676 9-10 2L

Principles of Studying Suspended Materials in Water,
W76-03877 9-08 2L

The Suspended Material of the Amazon Shelf and Tropical Atlantic Ocean,
W76-03889 9-08 2L

BSON, C. I.
Effects of Thermal and Chemical Discharges from Nuclear Power Plants,
W76-10051 9-19 5C

The Role of Dispersion in Fuel Oil Bioassay,
W76-11100 9-20 5C

Some Effects of Temperature, Chlorine and Copper on the Survival and Growth of the Coon Stripe Shrimp, Pandalus Danae,
W76-12722 9-24 5C

BSON, D.
Water Reuse at Ponderosa Paper Products, Inc., Flagstaff, Arizona,
W76-02474 9-05 5D

BSON, H. A.
Geologic Map Showing Springs Rich in Carbon Dioxide or Chloride in California,
W76-00092 9-01 7C

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Intertidal Organisms of an Industrialized Estuary,
W76-11815 9-22 5C

GIBSON, J. S.
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W76-10056 9-19 5C

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W76-08278 9-16 5B

GIBSON, V. R.
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W76-12737 9-24 6G

GIDDENS, J.
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W76-04726 9-10 5B

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W76-10881 9-20 10C

GIESE, G. L.
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W76-13078 9-24 5C

GIFFORD, A.
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W76-06621 9-13 6C

GIFFORD, C. E.
Removal of Inorganic Nitrogen in an Integrated Food Chain System,
W76-10988 9-20 5C

GIFFORD, G. F.
Beneficial and Detrimental Effects of Range Improvement Practices on Runoff and Erosion,
W76-02671 9-06 4C

Hydrologic Impact of Burning and Grazing on a Chained Pinyon-Juniper Site in Southeastern Utah,
W76-12153 9-23 4C

Surface Runoff and its Effect on Diffuse Salt Production From Mancos Shale Members,
W76-06583 9-13 2G

Water Quality Implications of Cattle Grazing on a Semiarid Watershed in Southeastern Utah,
W76-10171 9-19 5G

GIFFORD, R. O.
Bonding Mechanisms for Soil Crusts: Part II. Strength of Silica Cementation,
W76-00521 9-02 2G

Modification of Soil Crusts for Plant Growth,
W76-00519 9-02 2G

GIGER, W.
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W76-01754 9-04 5A

GILANI, S. H.
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W76-01103 9-03 5C

GILBERT, E.
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W76-01739 9-04 5D

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Water Quality and Resources Planning must be United,
W76-01343 9-03 5G

GILBERT, R. G.
Wastewater Renovation and Reuse: Virus Removal by Soil Filtration,
W76-10219 9-19 5D

GILBERT, S. B.
On the Universality of the Poole and Atkins Secchi Disk-Light Extinction Equation,
W76-06737 9-13 5A

GILBERT, W. G.
How to Improve Plant Efficiency,
W76-06342 9-13 5G

GILBERTSON, B. C.
Coordinated Livestock Production Systems,
W76-00465 9-01 5D

GILBERTSON, C. B.
An Analysis of Beef Cattle Feedlot Designs for Pollution Control,
W76-00457 9-01 5D

Beef Feedlots - A Pollution Problem,
W76-12358 9-23 5G

Disposal of Effluent from a Beef Cattle Feedlot Runoff Control Holding Pond,
W76-04290 9-09 5E

Large Commercial Feedlots - How Wastes are Handled in the West,
W76-11048 9-20 5D

Physical and Chemical Properties of Outdoor Beef Cattle Feedlot Runoff,
W76-10543 9-20 5B

Quantity and Quality of Beef Feedyard Runoff in the Great Plains,
W76-07196 9-14 5B

GILBERTSON, G. B.
Outdoor, Unpaved Feedlot Management,
W76-03989 9-08 5E

GILBREATH, K. R.
Chesapeake Corporation Operating Experience with a High Purity Oxygen Activated Sludge Waste Treatment System,
W76-11377 9-21 5D

GILDE, L. C.
Land Treatment of Food Processing Wastewaters,
W76-08468 9-16 5E

GILDERHUS, P. A.
Laboratory Efficacy of 3-Trifluoromethyl-4-Nitrophenol (TFM) as a Lampricide,
W76-08063 9-15 5C

Residues of 3-Trifluoromethyl-4-Nitrophenol (TFM) in a Stream Ecosystem After Treatment for Control of Sea Lampreys,
W76-08066 9-15 5C

GILEAD, A.
Hydroelectric Power Potential at Corps of Engineers Projects,
W76-09765 9-18 6B

GILES, M. L.
Design of Jubail Harbor, Saudi Arabia, Royal Saudi Naval Expansion Program; Hydraulic Model Investigation,
W76-07475 9-15 8B

Wave and Current Conditions for Various Modifications of Kewalo Basin, Honolulu, Oahu, Hawaii,
W76-07471 9-15 8B

GILFILIAN, R. E.
Nucleation Characteristics of Stream Water and Frazil Ice Nucleation,
W76-05695 9-12 2C

GILFILLAN, E. S.
Effects of Seawater Extracts of Crude Oil on Carbon Budgets in Two Species of Mussels,
W76-09320 9-17 5C

GILHOUSEN, D. B.
Heavy Fall and Winter Rain in the Carolina Mountains,
W76-01830 9-04 2B

Prediction of Meteorological Factors Related to Beach Erosion at New Jersey and Long Island, N.Y.,
W76-09270 9-17 2L

GILL, A. C.
Efficiency of Nitrogen, Carbon, and Phosphorus Retention by Small Agricultural Reservoirs,
W76-12983 9-24 4D

Fallout 137Cs in the Soils and Sediments of Three Small Watersheds,
W76-11453 9-21 5B

GILL, A. M.
Coupled Soil Moisture, Heat and Water Vapour Transfers Under Simulated Fire Conditions,
W76-05410 9-11 2G

GILL, J. A.
Pollution-Free Well Cuttings Disposal Apparatus,
W76-10464 9-19 5G

GILL, J. H.
Equity Considerations in Controlling Nonpoint Pollution from Agricultural Sources,
W76-08094 9-15 5G

GILL, K. D.
How to Communicate Complex Issues to the Public,
W76-03848 9-08 5G

GILLARD, P.
The Annual Variation in Yield of Pastures in the Seasonally Dry Tropics of Queensland,
W76-06016 9-12 3F

GILLESPIE, J. B.
Results of Infiltration Tests Near Scott City, Western Kansas,
W76-10136 9-19 2G

GILLESPIE, W. J.
Comparative Study of Thermal Techniques for Secondary Sludge Conditioning,
W76-00046 9-01 5D

Effect of Bark Addition Upon the Dewatering Properties of Biological Sludges,
W76-00043 9-01 5D

Water Quality-Limited Approach to Effluent Reduction in Paper Manufacture,
W76-00048 9-01 5G

GILLESPIE, W. T.
Boron and Arsenic Studies in Florida Waters,
W76-10265 9-19 5B

GILLETT, J. D.
Breeding Places and Seasonal Incidence of Aedes Aegypti, as Assessed by the Single-Larva Survey Method,
W76-06033 9-12 5G

GILLEY, J. R.
Consequences of Waste Disposal on Land,
W76-00427 9-01 5E

Energy Reduction Through Improved Irrigation Practices,
W76-11109 9-21 3F

Municipal Wastes as a Fertilizer Source,
W76-11117 9-21 5D

GILLHAM, R. W.
Hydraulic Properties of a Porous Medium: Measurement and Empirical Representation,
W76-09255 9-17 2G

GILLIAM, J. W.
Nitrogen Movement in a Shallow Aquifer System of the North Carolina Coastal Plain,
W76-04099 9-09 5B

Overland Flow Pretreatment of Wastewater,
W76-11775 9-22 5D

GILLIES, D. C.
Availability of Ground Water Near Carmel, Hamilton and Marion Counties, Indiana,
W76-12287 9-23 6A

GILLIES, R. G.
Lab-Proven Fly Ash Process Removes Bleach Effluent Color,
W76-05707 9-12 5D

GILLIG, J. S.
Legal Institutions for the Allocation of Water and Their Impact on Coal Conversion Operations in Kentucky,
W76-11489 9-21 6E

GILLILAND, E. J.
Financing the New Water Authorities,
W76-05810 9-12 6C

GILLILAND, M. W.
Systems Models for Phosphorus Management in Florida,
W76-10277 9-19 5C

GILLILAND, W. F.
Continuous Printed Circuit Etching-Without Pollution,
W76-02299 9-05 5D

GILLILAND, W. J.
Water Drainage from Highway Fills,
W76-11762 9-22 8D

GILLOTEAUX, J.
Detection of Zinc in Champy-Maillet's Histological Stain by Electron Probe Analysis,
W76-02891 9-06 5A

GILMAN, H. D.
Computer Based Control for Wastewater Systems,
W76-10019 9-19 5D

GILMAN, K.
Application of a Residence Time Model to Dilution Gauging, with Particular Reference to the Problem of Changing Discharge,
W76-10935 9-20 2E

GILMER, R. W.
Underwater Observations of Gelatinous Zooplankton: Sampling Problems, Feeding Biology, Land Behavior,
W76-09598 9-18 5C

GILMORE, G. H.
Growth and Mortality of Two Groups of Oysters, (Crassostrea Virginica Gmelin), Maintained in Cooling Water at an Estuarine Electric Power Generating Station,
W76-12726 9-24 5C

GILMORE, R. JR.
Treatment of Synthetic Urinous Wastewater Using Combined Reverse Osmosis, Immobilized Urease, and Ion Exchange Systems,
W76-10254 9-19 5D

GINN, J. R.
Changing Water Use In Selected Manufacturing Industries,
W76-03284 9-07 3F

Water Pollution Control Act of 1972, Economic Impacts, Metal Finishing Industry,
W76-10556 9-20 5G

GINN, T. C.
Biological Effects of Simulated Discharge Plume Entrainment at Indianpoint Nuclear Power Station, Hudson River Estuary, USA,
W76-09497 9-18 5C

The Effects of Power Plant Condenser Cooling Water Entrainment on the Amphipod, Gammarus SP.,
W76-12768 9-24 5C

GINOCCHI, J.
Different Aeration Systems for Groundwater and Surface Water (Verschiedene Systeme zur Belueftung von Grundund Oberflaechenwasser),
W76-02192 9-05 5D

GINSBURGER-VOGEL, T.
Influence of Temperature on Sexual Defferentiation in Crustacea, (Temperature et Differenciation Sexuelle Chez les Crustaces),
W76-12719 9-24 5C

GINTER, J. J.
Possible Effects of Construction and Operation of a Supertanker Terminal on the Marine Environment in the New York Bight,
W76-13089 9-24 6G

GINTHER, B. E.
Analysis of Feed Grains and Forages for Traces of Cobalt by Flameless Atomic Absorption Spectroscopy,
W76-03410 9-07 5A

GIRARD, H. J.
Pipeline Pig or Swipe,
W76-00848 9-02 8G

RE, M.-P.
.ead Nitrate Poisoning in the Carp (Cyprinus 'arpio L.):Localization of the Pollutant in the tody, (In French),
V76-12251 9-23 5A

RENKO, D. B.
Gas Chromatographic Analysis of Herbicides of the Carboxylic Acid Anilide Group, (In Russian),
V76-07224 9-14 5A

RISCH, H. B.
simulation Experiments on the Migration of Gammarus Zaddachi and Gammarus Chevreux-
W76-12724 9-24 5C

SH, W. B.
Load and Voltage Control Algorithms for Grand Coulee Powerplant,
W76-08112 9-16 8C

ST, C. S.
A Model of Mineral-Element Cycling for an Invertebrate Food Web in a Southeastern Hardwood Forest Litter Community,
W76-10272 9-19 5C

Resource Partitioning in Leaf-Litter Faunas from Hardwood and Hardwood-Converted-To-Pine Forests,
W76-10308 9-19 5B

TCHEL, W. B.
Waste Water Purification,
W76-08972 9-17 5D

Waste-Water Purification,
W76-11834 9-22 5D

Wastewater Treatment,
W76-05961 9-12 5D

TLIN, H. M.
Drip Irrigation Design Based on Uniformity,
W76-01070 9-03 3F

LADNEY, E. S.
Determination of Uranium in Natural Waters by Neutron Activation Analysis,
W76-11398 9-21 5A

LADWELL, J. S.
Planning Water Resources Research Programs,
W76-06440 9-13 6B

Water-Related Recreation: Planning for Management,
W76-02642 9-06 6B

LADYSHEV, A. I.
Biological Productivity of Herbaceous Phytocenoses of the Amu Dar'ya Flood Lands. (In Russian),
W76-00711 9-02 2I

LANCY, P. A.
A Brief Hydrologic Appraisal of the July 3-4, 1975, Flash Flood in Las Vegas Valley, Nevada.
W76-12806 9-24 4A

A Hydrologic Assessment of the September 14, 1974, Flood in Eldorado Canyon, Nevada.
W76-00663 9-02 2E

LANTSCHNIG, P.
The Mercury Contents of Fish from Carinthian Lakes, (In German),
W76-07981 9-15 5C

GLAS, T. K.
Salt Transport in Soil Profiles with Application to Irrigation Return Flow, The Dissolution and Transport of Gypsum in Soils,
W76-05836 9-12 5B

GLASS, G. E.
Chlorinated Compounds Found in Waste-Treatment Effluents and Their Capacity to Bioaccumulate,
W76-12891 9-24 5A

Comparative Toxicity of Sewage-Effluent Disinfection to Freshwater Aquatic Life,
W76-10898 9-20 5C

GLASS, J. C.
Use of Perturbed Gamma-Gamma Directional Correlations in the Study of Anomalous Water Structure,
W76-06906 9-14 1B

GLASS, W. R.
Water Resources of the Thrust Belt of Western Wyoming,
W76-06448 9-13 7C

GLASSER, R. J.
The Discharge Permit Program Under the Federal Water Pollution Control Act of 1972--Improvement of Water Quality Through the Regulation of Discharges from Industrial Facilities,
W76-04624 9-10 5G

GLASSMAN, D.
Apparatus for and a Method of Purifying Waste Fluid,
W76-02262 9-05 5D

Apparatus for and a Method of Purifying Waste Fluid,
W76-03070 9-07 5D

Method of Purifying Waste Fluid,
W76-04197 9-09 5D

GLASSNER, M. I.
The Illusory Treasure of Davy Jones' Locker,
W76-11972 9-22 6E

GLASTRIS, E. G.
Improvements in Phenoldisulfonic Acid Method for Determination of Nox,
W76-02557 9-06 5A

GLAZE, W. H.
Analysis of New Chlorinated Organic Compounds Formed by Chlorination of Municipal Wastewater,
W76-12883 9-24 5A

Formation of Organochlorine Compounds from the Chlorination of a Municipal Secondary Effluent,
W76-03699 9-08 5D

GLEASON, P. J.
Chemical Quality of Water in Conservation Area 2A and Associated Canals,
W76-00033 9-01 5A

GLEMBOTSKY, A. V.
Extraction of Metals by Neutral Sulfur-Containing Extractants, Part I, O-Isopropyl-N-Ethylthiocarbamate,
W76-03641 9-08 5A

GLEN, D.
Iceland's Winter Cod Catch Shows Serious Decline,
W76-12966 9-24 6C

GLEN, J. W.
The Electrical Properties of Snow and Ice,
W76-05373 9-11 2C

GLENN, J. R.
Water Pollution Control Act of 1972, Economic Impacts, Iron and Steel Industry,
W76-10557 9-20 5G

GLEYE, L.
A Photochemical Side Reaction That Interferes with the Phenolhypochlorite Assay for Ammonia,
W76-06712 9-13 5A

GLICK, P. M.
Nonstructural Measures for Flood Plain and Flood Damage Management, with Application to the Connecticut River Basin Supplemental Flood Management Study,
W76-01345 9-03 6F

GLICKSMAN, L. R.
Improvement of the Environmental and Economic Characteristics of Cooling Towers: Part I of II. Heat Rejection from Horizontal Tubes to Shallow Fluidized Beds,
W76-02381 9-05 5G

GLINSKA, M.
Determination of Chlorine Dioxide and Other Active Chlorine Compounds in Aqueous Solutions (Oznaczanie dwutlenku chloru oraz innych aktywnych zwiazkow chloru wroztworach wodnych),
W76-12510 9-23 5A

GLOBUS, A. M.
Nature of Water-Retaining Forces in Moderately Wet Soils of Medium and Fine Texture, (In Russian),
W76-02900 9-06 2G

GLOCK, R. D.
Swine Waste Lagoons as Potential Disease Reservoirs,
W76-07192 9-14 5B

GLOCKER, J. J.
The Pollution Control Bond,
W76-09771 9-18 5G

GLOERSEN, P.
Geophysical Studies of Floating Ice by Remote Sensing,
W76-02954 9-06 2C

Ice Thickness Distribution as Inferred from Infrared and Microwave Remote Sensing During the Bering Sea Experiment,
W76-04996 9-10 2C

Mesoscale Description for the Principal Bering Sea Ice Experiment,
W76-04997 9-10 2C

Satellites--New Global Observing Techniques for Ice and Snow,
W76-05396 9-11 7B

GLOOSCHENKO, W. A.
Nutrient-Primary Production Relationships in Central Lake Erie: A Simple Correlation Approach,
W76-08836 9-17 5C

GLOTOVA, YE. A.
Treatment of Wastewaters from Carbamide Resin Production (Ochistka stochnykh vod ot proizvodstva karbamidnoy smoly),
W76-04086 9-09 5D

GLOVER, D. W.
Measured Chromium Distributions Resulting from Cooling-Tower Drift,
W76-04828 9-10 5B

GLOVER, H.
Effect of Environmental Factors on Photosynthesis Patterns in Phaeodactylum Tricornutum (Bacillariophyceae). I. Effect of Nitrogen Deficiency and Light Intensity,
W76-12942 9-24 5C

GLOVER, J. R.
A Frazil Ice Concentration Measuring System Using a Laser Doppler Velocimeter,
W76-01850 9-04 2C

GLOVER, R. E.
South Platte River Flow Correlations,
W76-01699 9-04 4A

South Platte River Flow Correlations,
W76-03117 9-07 4B

GLUECKERT, A. J.
Onshore Treatment System for Sewage from Watercraft Retention Systems,
W76-07058 9-14 5D

GLYAN'KO, A. K.
Aftereffect of Spring Frosts on Protein Synthesis in Winter Wheat Leaves Depending on the Form of Nitrogenous Fertilizer, (In Russian),
W76-07422 9-14 3F

GLYSSON, G. D.
Redwood National Park Studies Data Release Number 1: Redwood Creek, Humboldt County, California, September 1, 1973-April 10, 1974,
W76-02144 9-05 7C

GNEUSHEVA, G. I.
The Role of Freshwater Fish as a Possible Supplier of P32 Under the Conditions of Pollution of Natural Water Reservoirs by this Radionuclide,
W76-06884 9-14 5B

GNIESER, J.
Biological Processes for Effluent and Waste Treatment Exemplified by the Paper Industry (Biologische Verfahren Zur Abwasser- Und Abfallaufbereitung am Beispiel der Paper-Industrie),
W76-08699 9-16 5D

GNILKA, S.
Chronic Toxicity of Atrazine to Selected Aquatic Invertebrates and Fishes,
W76-10517 9-20 5C

GOCHNAUER, M. B.
Isolation and Characterization of Actinopolyspora Halophila, Gen. ET SP. Nov., An Extremely Halophilic Actinomycete,
W76-08837 9-17 5C

GOCKEL, B.
Relieving Water Cycles by the Use of Individual Backflush Filters (Entlastung Der Wasserkreislaraufe Durch Rueckspuelbare Einzelfilter),
W76-03081 9-07 5D

GODDARD, C. C.
Sewage Treatment System,
W76-05034 9-11 5D

GODDARD, H. C.
Pricing for Water Supply: Its Impact on Systems Management,
W76-04545 9-10 5G

GODDEN, R. G.
Improvements in the Atomic-Fluorescence Determination of Mercury by the Cold-Vapour Technique,
W76-02882 9-06 5A

GODE, P.
Waste Water Problems of Desizing With Respect to Legislative Measures (Abwasserprobleme Beim Entschlichten Unter Beruecksichtigung Gesetzgerberischer Massnahmen),
W76-04031 9-09 5D

GODFRIAUX, B. L.
Food of Tarakihi in Western Bay of Plenty and Tasman Bay, New Zealand,
W76-06047 9-12 2L

GOEL, M. C.
Howell Bunger Valves as Irrigation Outlets,
W76-09615 9-18 3F

GOEMAAT, R. L.
Geohydrology of the Oklahoma Panhandle, Beaver, Cimarron, and Texas Counties,
W76-13081 9-24 4B

GOEPPNER, J.
Sanitary Landfills: No Place for leaching,
W76-01550 9-04 5D

GOERING, H.
The Influence of High Salt Concentrations on Various Physiologic Paramters of Maize Roots, (In German),
W76-06790 9-13 3C

GOETHE, R. W.
Feedlot Waste Recycling with a Flush Cleaning System,
W76-07170 9-14 5D

GOETTL JR, J. P.
Acute and Chronic Toxicity of Lead to Rainbow Trout Salmo Gairdneri, in Hard and Soft Water,
W76-08781 9-17 5C

GOETZ, A. F. H.
Digital Image Enhancement Techniques Used in Some ERTS Application Problems,
W76-02068 9-05 7C

GOFF, J. D.
Wastewater Resources in North Central Texas,
W76-12652 9-23 5G

GOIMAN, S. A.
Experience in Decontamination of Industrial Wastes and Treatment Plant Sediments in Leningrad, (In Russian),
W76-12291 9-23 5D

GOKHALE, K. V. G. K.
Design and Fabrication of a Bore-Hole Logging Device for Use in Ground Water Operations,
W76-00397 9-01 4B

GOLAY, M. W.
A Model for Salt Drift Deposition from Spray Ponds,
W76-08866 9-17 5B

GOLD, H.
Wastewater Reuse by Continuous Ion Exchange,
W76-07239 9-14 5D

GOLDBERG, D.
Combined Irrigation and Fertilization of Tomatoes Grown on Sand Dunes,
W76-13127 9-24 3C

Measurement of Hydraulic Conductivity and Diffusivity for Predicting the Process of Soil Water Infiltration from a Trickle Source,
W76-04700 9-10 2G

GOLDBERG, E. D.
N2:AR, Nitrification and Denitrification in Southern California Borderland Basin Sediments,
W76-04952 9-10 5B

GOLDBERG, M. D.
Coupled Energy System-Economic Models,
W76-09605 9-18 6A

GOLDBURN, J. R.
Water Pollution Aspects from Waste Drilling Mud Disposal in Canada's Arctic,
W76-09334 9-17 5G

GOLDEN, H. G.
Optimizing Information Transfer in a Stream-Gaging Network,
W76-01187 9-03 7A

GOLDFIELD, J.
Filtering Process,
W76-02828 9-06 5D

GOLDHIRSH, J.
Radar Derived Spatial Statistics of Summer Rain - Experiment Description,
W76-12178 9-23 7B

GOLDMAN, C. R.
The Effects of a Benthic Grazer on the Primary Productivity of the Littoral Zone of Lake Tahoe,
W76-06719 9-13 5C

Eutrophication of Lake Tahoe Emphasizing Water Quality,
W76-04569 9-10 5C

Where Have all the Daphnia Gone.The Decline of a Major Cladoceran In Lake Tahoe, California-Nevada,
W76-04912 9-10 5C

GOLDMAN, D. A.
An Outbreak of Shigella Sonnei Gastroenteritis on Colorado River Raft Trips,
W76-07691 9-15 5C

GOLDMAN, G. C.
The Feasibility of Oil-Pollution Detection and Monitoring from Space: Examples Using ERTS-1 and Skylab Data,
W76-13181 9-24 5A

GOLDMAN, J. C.
Identification of Nitrogen as a Growth-Limiting Nutrient in Wastewaters and Coastal Marine Waters Through Continuous Culture Algal Assays,
W76-09195 9-17 5A

A Kinetic Approach to the Effect of Temperature on Algal Growth,
W76-10987 9-20 5C

Nutrient Transformations in Mass Cultures of Marine Algae,
W76-06441 9-13 5C

Relative Growth of Different Species of Marine Algae in Wastewater-Seawater Mixtures,
W76-10989 9-20 5C

Removal of Inorganic Nitrogen in an Integrated Food Chain System,
W76-10988 9-20 5C

DMAN, M.
paratus and Method for Protecting a oreline Against Contamination from an Oil ill,
76-13144 9-24 5G

DMINTZ, D.
ew Methods Under Investigation for the ilization of Fish Solubles, A Fishery product, as a Means of Pollution Abatement,
76-04736 9-10 5G

DSMITH, H. I.
int Treatment versus Pretreatment of Food-ocessing Wastes,
76-04080 9-09 5D

DSMITH, R. L.
eversé Osmosis Treatment of Electroplating astes,
76-03066 9-07 5D

eatment of Army M U S T Field Hospital astewater for Water Reuse,
76-11270 9-21 5D

DSTEIN, G.
iological Indicators of Environmental Quality. Bibliography of Abstracts,
76-09860 9-18 5A

etermination of Selenium in Natural Waters sing the Centrifugal Photometric Analyzer,
76-06128 9-12 2K

DSTEIN, R. A.
ffects of Temperature on Food Ingestion Rate nd Absorption, Retention, and Equilibrium urden of Phosphorus in a Aquatic Snail, oniobasis Claveaformis Lea,
76-03036 9-07 5C

imulation of Evapotranspiration and Drainage om Mature and Clear-Cut Deciduous Forests nd Young Pine Plantation,
76-02426 9-05 2D

DWYN, G.
udson River Striped Bass Life Cycle Model,
76-08634 9-16 5C

LAN, A. Z.
reatment of Army M U S T Field Hospital astewater for Water Reuse,
76-11270 9-21 5D

LOMBEK, J. M.
alculated Yield of Sewage Lagoon Biomass, Plan for Production, and some of the roblems Inherent in Using Biomass or Lagoon ater for Production of Food and Fiber,
76-03549 9-08 5D

LOVENKINA, N. I.
iatoms of Some Mineral and Thermal Springs the Caucasus, (In Russian),
76-07986 9-15 2I

LOVKIN, A. N.
ariations in the Hydrochemical Regime of the oastal Waters in Winter Influenced by lacrophytes, (In Russian),
76-03305 9-07 5C

LSER, J.
rinciples of Dimensioning the Supporting ystem for the 'New Austrian Tunnelling ethod',
76-01281 9-03 8E

GOLUEKE, C. G.
Solar Energy Fixation and Conversion with Algal Bacterial Systems,
W76-12968 9-24 5D

GOLUEKE, G. C.
Hydraulic Handling of Poultry Manure Integrated into an Algal Recovery System.
W76-00915 9-02 5D

GOLUEKE, R.
Electronic Computation of Quantities and Costs for Sewerage Systems Construction (Massenermittlung und Kostenberechnung im Kanalisationsbau mit elektronischen Datenverarbeitungsanlagen),
W76-00796 9-02 5D

GOMELLA, C.
Choice Between Surface and Groundwater for Water Supplies to Urban Centres,
W76-00814 9-02 4B

GOMEZ ANGULO, J. A.
The Role of Groundwater in Spain,
W76-00808 9-02 4B

GOMEZ-GOMEZ, F.
Hydrologic Characteristics of Lagoons at San Juan, Puerto Rico, During a January 1974 Tidal Cycle,
W76-07597 9-15 5B

GOMEZ, S. P.
Predicting Ionic Distributions in Large Soil Columns,
W76-07234 9-14 2G

GOMIDE, F. L. S.
Range and Deficit Analysis Using Markov Chains,
W76-03354 9-07 2H

GONCHARUK, E. I.
Hygienic Substantiation of the Possibility of Wastewater Treatment of Poultry Processing Plants on Underground Filter Beds, (In Russian),
W76-08581 9-16 5D

GONTHIER, J. B.
Ground-Water Resources of Waukesha County, Wisconsin,
W76-04408 9-09 2F

GONZALEZ, J. G.
Critical Thermal Maxima and Upper Lethal Temperatures for the Calanoid Copepods Acartia Tonsa and A. Clausi,
W76-02329 9-05 5C

GONZALEZ, V.
Hydrologic Data for Urban Studies in the San Antonio, Texas Metropolitan Area, 1974,
W76-11413 9-21 7C

GOOCH, J. W.
Waste Extraction Process,
W76-04200 9-09 5D

GOOD, D.
Impacts of Imposing Selected Pollution Controls,
W76-03982 9-08 5G

GOODALE, T. L.
A Cluster Analysis of Activity, Frequency, and Environment Variables to Identify Water-Based Recreation Types,
W76-12955 9-24 6B

GOODALL, D. W.
Problems of Scale and Detail in Ecological Modelling,
W76-00739 9-02 6G

GOODISON, B.
The Relation Between Ablation and Global Radiation over Peyto Glacier, Alberta,
W76-01249 9-03 2C

GOODMAN, A. H.
Progress in Methods of Nitrate Removal,
W76-05805 9-12 5D

GOODMAN, J.
Coastal Zone Management: The Process of Program Development,
W76-05204 9-11 6B

GOODMAN, L. H.
Phenoxy Herbicide Residues and Their Persistence,
W76-11151 9-21 5B

GOODNOW, W.
Underlake Sewer Spurs Resort Development,
W76-10685 9-20 5D

GOODNOW, W. E.
Aerated Lagoons Solve Town's Site Problems,
W76-05799 9-12 5D

GOODRICH, P. R.
Survival of Pathogens in Animal Manure Disposal,
W76-02765 9-06 5C

GOODRICH, R. D.
Influence of an Antibiotic on the Performance of Yearling Holstein Steers,
W76-04434 9-09 5C

GOODRICH, R. R.
Method for Clarifying Oily Water Mixtures,
W76-09057 9-17 5G

GOODSON, L. H.
Development of Buoy Mounted Hydrocarbon Vapor Sensors for Use in Local Area Pollution Surveillance Systems,
W76-11930 9-22 5A

GOODSPEED, M. J.
Problems in the Programmed Optimisation of a Hydrological Catchment Model,
W76-01420 9-03 2A

Synthetic Input Data Time Series for Catchment Model Testing,
W76-04144 9-09 2A

GOODWILLIE, R.
Eutrophication of a Partially Enclosed Estuarine Mudflat,
W76-11811 9-22 5C

GOODWIN, C.
Computer Simulation of the Snwomelt and Soil Thermal Regime at Barrow, Alaska,
W76-02703 9-06 2C

A Digital Computer Simulation of the Annual Snow and Soil Thermal Regimes at Barrow, Alaska,
W76-04674 9-10 2C

GOODWIN, J. E.
UNOX Secondary Sludge Dewatering Studies at Longview Fibre Company,
W76-11381 9-21 5D

GOODWIN, J. T.
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W76-04917 9-10 5C

GOODYEAR, C. P.
Acid Rock in the Great Smokies: Unanticipated Impact on Aquatic Biota of Road Construction in Regions of Sulfide Mineralization,
W76-03770 9-08 5C

Striped Bass, A Selected, Annotated Bibliography,
W76-04840 9-10 6E

GOOLSBY, W.
Optimal Pricing and Investment in Community Water Supply,
W76-01600 9-04 6C

GOOS, G.
Optimizing Organic Carbon and Color Removal from a Board Mill Effluent,
W76-05724 9-12 5D

GOPALAKRISHNAN, C.
Some Institutional Constraints to Coastal Zone Management: A Case Study of Hawaii,
W76-02624 9-06 6E

GOPALAN, U. K.
Comparison of the Food Chain Dynamics of the Polychaete, Nereis Virens Cultured on Animal Tissue and Detritus,
W76-10998 9-20 5C

GOPHEN, M.
N and P Distribution in Lake Kinneret (Israel) with Emphasis on Dissolved Organic Nitrogen,
W76-06268 9-13 5B

GORBACHEV, B. N.
Changes in the Microphytocenotic Composition of Quack Grass Meadows in the Flood Plain of the Lower Don in Different Years, (In Russian),
W76-07953 9-15 2I

GORBACHEVA, T. V.
Experience with the Use of Protococcus Algae for the Purification of Waste Waters Generated in Starch Production (Opyt primeneniya protokokkovykh vodorosley dlya ochistki stochnykh vod krakhmal 'nogo proizvodstva),
W76-03084 9-07 5D

GORBUNOVA, O. F.
Polarographic Determination of Dimethyl Disulfide and Methyl Mercaptan in Aqueous Solutions Containing both (Opredelenie metilmerkaptana i dimetildisul'fida v vodnykh rastvorakh pri ikh sovmestnom pristustvii polyarograficheskim metodom),
W76-00054 9-01 5A

GORBUSHINA, N. M.
Effect of Excess Soil Moisture on the Content of Phosphorus Compounds in Barley, (In Russian),
W76-09913 9-18 3F

GORDIMER, S.
Documentation for ES001. A Steady-State, One Dimensional, Estuarine Water Quality Model,
W76-11460 9-21 5B

GORDON, D. C. JR.
Hydrocarbon Concentrations in Seawater along the Halifax-Bermuda Section: Lessons Learned Regarding Sampling and some Results,
W76-10388 9-19 5A

GORDON, H. H.
Applications of Remote Sensing to Estuarine Problems,
W76-13184 9-24 2L

Remote Sensing Applications in Marine Science Programs at Vims,
W76-01839 9-04 7B

GORDON, H. R.
Mie-Theory Models of Light Scattering by Ocean Particulates,
W76-03881 9-08 2L

Relationships Between ERTS Radiances and Gradients Across Oceanic Fronts,
W76-02039 9-05 7B

GORDON, R. B.
Finite Difference Approximation to the Convective Transport Equation,
W76-10441 9-19 5B

GORDON, R. C. JR.
Inhibition of Scale Deposition,
W76-05529 9-12 5D

GORDON, R. W.
Chemical Characteristics, Acute Toxicity and Detoxification of Foam in Two Aerated Lagoons,
W76-09295 9-17 5C

GORDON, Y.
Viability of Existing Water Resource Models, The Potomac River Basin Water Supply Alternatives,
W76-06424 9-13 6A

GORE, R. J.
Environmental Law: Weather Modification-Proposed Federal Legislation and the Oklahoma Weather Modification Act,
W76-00928 9-02 6E

GORETSKAYA, Z. A.
Formation of Water and Sediment Discharge During the Spring Flood on a Slope and in a Small Gully-Ravine Drainage Basin,
W76-06176 9-13 2J

GORETTI, G.
Chromatographic Determination of Constituents in Etheral Extracts from Industrial Waste Waters (Del Constituenti L'Estratto Etereo di Acque Industriali),
W76-03998 9-08 5A

Study on the Removal of Aromatic Hydrocarbons from Industrial Wastewaters by Means of Activated Carbon (Studio per la rimozione di idrocarburi aromatici da acqua di scarico industriali tramite carboni attivi),
W76-07758 9-15 5D

GORHAM, E.
A Comparison of the Abundance and Diversity of Fossil Pigments in Wetland Peats and Woodland Humus Layers,
W76-11601 9-21 5C

GORIA, C. F.
Compensation for Oil Pollution at Sea: An Insurance Approach,
W76-11975 9-22 5G

GORIENKO-GIERMANOV, D. S.
Oxidation of Acetone with Ozone in Aqueous Media in the Treatment of Acetone-Containing Waste Water (Okisplienye atsietona ozonom v vodnykr skriedahr prumienitielno k obiezvriejivaniyou atsietonsodierjachtihr),
W76-05277 9-11 5D

GORIN, P. A. J.
Yeasts Isolated from Some Lakes and Rivers of Saskatchewan,
W76-06135 9-12 5B

GORLENKO, V. M.
Microbiological Production of Hydrogen Sulphide in the Veisovo Lake (Slavyansk Lakes), (In Russian),
W76-07278 9-14 5C

Participation of Microorganisms in Sulfur Turnover in Pomiaretzkoe Lake, (In Russian),
W76-01774 9-04 5C

GORMAN, W. D.
Cost of Producing Crops in the Irrigated Southwest, Part II: New Mexico,
W76-09475 9-18 3F

GORODNOV, M. M.
Oxidation of Acetone with Ozone in Aqueous Media in the Treatment of Acetone-Containing Waste Water (Okisplienye atsietona ozonom v vodnykr skriedahr prumienitielno k obiezvriejivaniyou atsietonsodierjachtihr),
W76-05277 9-11 5D

GORRINGE, R. E.
Deep-Tank Extended Aeration of Refinery Wastes,
W76-04205 9-09 5D

GORTON, P. A.
Instrumental Methods of Monitoring Organic Pollution,
W76-06933 9-14 5A

GORYUNOVA, S. V.
'Toxic' or 'Poisonous' Water, (In Russian),
W76-09932 9-18 5C

GOSS, J. B.
Drip Irrigation Tap and System,
W76-03514 9-08 3F

GOSSETT, C. W.
System of Water Purification and Product Distribution,
W76-13151 9-24 5F

GOSZ, J. R.
Leaching of Nutrients from Leaves of Selected Tree Species in New Hampshire,
W76-10312 9-19 5B

Nutrient Budgets for Undisturbed Ecosystems Along an Elevational Gradient in New Mexico,
W76-10325 9-19 5C

GOTOH DOHERTY, Y.
Incorporation of 203HG into Methylmercury in Fish Liver: Studies in Biochemical Mechanisms in Vitro,
W76-10347 9-19 5C

GOTTFRIED, G. J.
Snowmelt Runoff Efficiencies on Arizona Watersheds,
W76-02866 9-06 2C

GOTTFRIED, G. J. JR.
Snowmelt Runoff Efficiencies on Arizona Watersheds,
W76-03581 9-08 3B

GOTTSCHLING, R. D.
Ozone Provides Alternative for Secondary Effluent Disinfection. Part 1,
W76-09445 9-18 5D

zone Provides Alternative for Secondary Effuent Disinfection Part 2,
'76-09715 9-18 5D

zone Provides Alternative for Secondary Effuent Disinfection Part 3,
'76-11213 9-21 5D

ULD, E. M.
ifting Land use and the Effects on River ow in Massachusetts,
'76-04976 9-10 4C

ULD, J.
isinfection, (Literature Review),
'76-12924 9-24 5F

ULD, M.
conomic Considerations for Planning Sewage udge Disposal Systems,
'76-05083 9-11 5E

andling and Disposal of Bleach Plant Effuents,
'76-11383 9-21 5D

ULDEN, P. D.
utomated Determination of Carbon in Natural 'aters,
'76-10936 9-20 5A

utomated Determinations of Dissolved Oranic Carbon in Lake Water,
'76-05047 9-11 5A

utomated Dilution for Measurement of itrate in Water,
'76-05594 9-12 5A

lodified Curcumin and Dianthrimide Methods or the Determination of Boron in the Presence f High Levels of Nitrate and Organics,
'76-10937 9-20 5A

'VE, G. W.
urrent Status of Paper Reprocessing Effluent haracteristics and Disposal Practices,
'76-02468 9-05 5D

'VETT, G. J. S.
xploration Rock Geochemistry-Detection of race Element Halo at Heath Steele Mines (N. ., Canada) by Discriminant Analysis,
'76-09473 9-18 2K

'VINDARAJAN, K.
orrelation Between Sowing Time and Weather actors on the Intensity of Groundnut Disases,
'76-06800 9-13 3F

'VINDARAJAN, R.
avitation and Size Scale Effects for Orifices,
'76-00489 9-01 8B

'W, A. J.
rine Infiltration in the McMurdo Ice Shelf, cMurdo Sound, Antarctica,
'76-02707 9-06 2C

ompressibility Characteristics of Undisturbed now,
'76-00537 9-02 2C

as Inclusions in the Antarctic Ice Sheet and heir Glaciological Significance,
'76-04972 9-10 2C

'WDA, B. H. L.
n Empirical Description of Wall Jet Velocity rofiles,
'76-02407 9-05 8B

GOWORSKI, E. T.
Sewer Augering Machine,
W76-02212 9-05 8G

GOYAL, V. K.
An Empirically Modified Strokes Equation for Mean Particle Size from Hindered Settling Experiment at any one Concentration,
W76-04973 9-10 2J

GOYER, G. G.
Time-Integrated Radar Echo Tops as a Measure of Cloud Seeding Effects,
W76-02424 9-05 3B

GOYETTE, E. A.
Phosphorus Loss by Stream Transport from a Rural Watershed: Quantities, Processes, and Sources,
W76-12435 9-23 5B

GOZDZICKA-JOZEFIAK, A.
Valyl tRNA's of Anacystis Nidulans,
W76-08827 9-17 5C

GRABAU, W. E.
Sediment Concentration Mapping in Tidal Estuaries,
W76-02043 9-05 7B

GRABER, K. L.
Ammonia Removal by Use of Clinoptilolite,
W76-09180 9-17 5D

GRABOWSKI, J.
Problems of Galvanic Wastewater Purification in Closed Water Cycle (Problemy oczyszczania sciekow galwanizerskich w zamknietym obiegu wodnym),
W76-05285 9-11 5D

GRACE, J.
The Effect of Wind on Grasses: I. Cuticular and Stomatal Transpiration,
W76-07425 9-14 2D

GRACE, J. M.
Evaluation of a Pneumatic Barrier for Oil Containment,
W76-11923 9-22 5G

GRACE, R. C.
Pressure Sewer System,
W76-02181 9-05 5D

GRACHEVA, L. M.
Analysis of Sulfur-Containing Products Accumulated by Chlorella Mutants,
W76-05476 9-11 5C

GRADY, C. P. L. JR.
Design Graphs for Activated Sludge Process,
W76-01005 9-03 5D

Optimal Activated Sludge Design Under Uncertainty,
W76-09628 9-18 5D

GRADY, D. A.
Minimum Streamflow-Federal Power to Secure,
W76-11900 9-22 4A

GRAEBEL, W. P.
Fast Current Oil Control Study,
W76-08748 9-16 5G

Fast Current Oil Response Systems, Tests on Phase I Concepts,
W76-12385 9-23 5G

GRAEF, W.
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W76-09591 9-18 5A

GRAETZ, D. A.
Liquid Chromatographic Analyses in Soil Chemistry,
W76-01636 9-04 5A

Paper Chromatographic Analysis in Air Pollution,
W76-01637 9-04 5A

Paper Chromatographic Analysis in Soil Chemistry,
W76-01638 9-04 5A

GRAF, G.
Use of Perturbed Gamma-Gamma Directional Correlations in the Study of Anomalous Water Structure,
W76-06906 9-14 1B

GRAF, W. H.
Performance of Pennsylvania Highway Drainage Inlets,
W76-03750 9-08 8B

GRAF, W. L.
The Impact of Suburbanization on Fluvial Geomorphology,
W76-02702 9-06 4C

The Impact of Suburbanization on Stream Networks,
W76-11113 9-21 4C

The Impact of Suburbanization on the Stream Channel Networks of Ralston Creek and South Branch, Iowa,
W76-13051 9-24 4C

GRAHAM, J.
Capacity of Water-Based Recreation Systems, Part III: Methodology and Findings,
W76-01804 9-04 6B

GRAHAM, J. W.
Heat Treatment for the Control of Marine Fouling at Coastal Electric Generating Stations,
W76-04916 9-10 5C

GRAHAM, K. A.
The Regulation of Deepwater Ports,
W76-07813 9-15 5G

GRAHAM, M. E.
Ground-Water Levels, 1968-1972,
W76-00887 9-02 7C

GRAHAM, R. P.
Reduced-Water Cleaning of Tomatoes,
W76-04734 9-10 3E

GRAHAM, R. W.
Preliminary Assessment of Systems for Deriving Liquid and Gaseous Fuels from Waste or Grown Organics,
W76-12967 9-24 5D

GRAHAM, T. P.
Chronic Malnutrition in Four Species of Sunfish in a Thermally-Loaded Impoundment,
W76-03472 9-07 5C

GRAHAME, J.
Spawning Littorina Littorea (L.) (Gastropoda: Prosobranchiata),
W76-12725 9-24 5C

GRAHN, O.
Oligotrophication - A Self-Accelerating Process In Lakes Subjected to Excessive Supply of Acid Substances,
W76-11403 9-21 5C

GRAINGER, J. N. R.
Mechanism of Death at High Temperatures in Helix and Patella,
W76-12746 9-24 5C

GRAJCER, D.
Controlled Eutrophication: Sewage Treatment and Food Production,
W76-03575 9-08 5D

GRAMENOPOULOS, N.
Automated Thematic Mapping and Change Detection of ERTS-1 Images,
W76-02063 9-05 7B

GRANKVIST, G.
YBBARPSAN-A Small Receptacle for a Large Industry: Water Conservation Action in the Vicinity of Perstorp AB, (In Swedish),
W76-06732 9-13 5D

GRANMO, A.
Uptake Pathways and Elimination of a Nonionic Surfactant in Cod (Gadus Morrhua L.),
W76-11182 9-21 5C

GRANT, B. F.
Endrin Toxicity and Distribution in Freshwater: A Review,
W76-09122 9-17 5C

GRANT, D. R.
Comparison of Evaporation Measurements Using Different Methods,
W76-00020 9-01 2D

GRANT, D. W.
Bioconcentration and Biotransfer of Aflatoxin,
W76-05169 9-11 5B

GRANTHAM, C. K.
Toxicity Study - Drilling Fluid Chemicals on Aquatic Life,
W76-08895 9-17 5C

GRANTHAM, G. R.
Water Quality Planning Strategy,
W76-06439 9-13 5G

GRAS, R.
Agronimic Effects of the Land Disposal of Wastes from the Agricultural and Food Industries (Repercussions Agronomiques Des Epandages D'Effluents Des Industries Agricoles Et Altimentaires,
W76-05331 9-11 5D

GRASS, L. B.
High-Pressure Water Jet Cleaning of Subsurface Drains,
W76-01564 9-04 8C

Redox Potential in Irrigated Desert Soils as an Indicator of Aeration Status,
W76-09488 9-18 2G

GRASSLE, J. F.
Methods for Studying the Effects of Marine Oil Spills,
W76-05152 9-11 5C

GRAU, R. W.
Stabilization of Soil and Aggregate Materials for Forward Area Operations,
W76-02681 9-06 8D

GRAUBY, A.
Incidence De La Charge Polluante Des Eaux Sur Le Comportement Des Radionucleides, (Effect of the Pollutant Burden of Water on the Behaviour of Radionuclides),
W76-10893 9-20 5C

Techniques De Determination Radide Des Effets De Synergie Radionucleides - Polluants, (Techniques for Rapid Determination of Effects of Synergy Between Radionuclides and Pollutants),
W76-10891 9-20 5A

GRAVES, M. E.
Stochastic Sea State for SRB Studies,
W76-13177 9-24 2L

GRAVES, Q.
Basic Performance Parameters for Oxygenation and Liquid Circulation in Rotor-Aerated Liquid Waste Systems,
W76-01092 9-03 5D

GRAVES, R.
They're Getting the Jump on Pollution Controls,
W76-01036 9-03 5E

GRAVES, R. E.
Large Piston Manure Pumps and Outside Manure Storages (Earthen Basins),
W76-07172 9-14 5D

The Renovation and Reuse of Water for Dilution and Hydraulic Transport of Dairy Cattle Manure,
W76-12345 9-23 5D

GRAVESEN, H.
Problems of Physical Model Tests with Harbours,
W76-10451 9-19 8B

GRAVITS, N.
A Photochemical Side Reaction That Interferes with the Phenolhypochlorite Assay for Ammonia,
W76-06712 9-13 5A

GRAY, A. C. JR.
Activated Sludge Process with Alum Addition and Heat Treatment,
W76-09456 9-18 5D

Fight Floatables with Chemicals,
W76-05305 9-11 5D

GRAY, D. A.
The Hydrogeological Investigation of Fissure-Flow by Borehole Logging Techniques,
W76-00417 9-01 8G

GRAY, D. V.
Land Spreading of Industrial Waste Water and the Effluent from a Secondary Treatment Facility,
W76-03350 9-07 5D

GRAY, E. A.
Survival of Escherichia Coli in Stream Water in Relation to Carbon Dioxide and Plant Photosynthesis,
W76-05628 9-12 5C

GRAY, G. R.
Mobility of Well-Drilling Additives in the Ground Water System,
W76-08904 9-17 5B

GRAY, J. S.
Physical Factors Controlling Abundance of Meiofauna on Tidal and Atidal Beaches,
W76-10069 9-19 5A

GRAY, R. F.
Introduction and Physical Description of Lake Norman,
W76-05871 9-12 5C

Thermal and Water Quality Characteristics of Lake Norman,
W76-05872 9-12 5C

GRAY, S. L.
The Development of Water Multiplier Impacts from Input-Output Analysis: An Empirical Example from Boulder, Larimer, and Weld Counties, Colorado,
W76-08100 9-15 6D

An Economic Analysis of Water Use in Colorado's Economy,
W76-05837 9-12 6B

GRAY, W. G.
An Analysis of the Numerical Solution of the Transport Equation,
W76-12434 9-23 5B

Numerical Simulation of Salt-Water Intrusion in Coastal Aquifers, Part 2,
W76-05011 9-11 5B

On the General Equations for Flow in Porous Media and Their Reduction to Darcy's Law,
W76-12199 9-23 2F

GRAYBEAL, G. E.
ERTS-1 Data in Support of the National Program of Inspection of Dams,
W76-02029 9-05 7C

GRAYBILL, D. L.
Seasonal and Annual Variations in the Quantities of Nitrogen, Potassium, Phosphorus, Magnesium, Calcium, and Manganese Reaching the Forest Floor as Mast in Pennsylvania and Vermont Forests,
W76-10306 9-19 5B

GRECO, V.
Filtering Process,
W76-02828 9-06 5D

GREEFF, C. G.
Total Population Density of Crustacea and Aquatic Insecta as an Indicator of Fenthion Population of River Water,
W76-03779 9-08 5G

GREEN, A.
Development of a Gross Pollution Detector: Laboratory Studies,
W76-00609 9-02 5A

GREEN, A. C.
Virus Removal and Inactivation by Physical-Chemical Waste Treatment,
W76-07999 9-15 5D

GREEN, A. W.
An Approximation for the Shapes of Large Raindrops,
W76-05165 9-11 2B

GREEN, B. L.
Comparison of the New Millipore HC with Conventional Membrane Filters for the Enumeration of Fecal Coliform Bacteria,
W76-05069 9-11 5A

:N, C. D.
Role of Organic Detritus in the Formation Distinctive Sandy Tidal Flat Sedimentary ıctures, Tay Estuary, Scotland,
6-08524 9-16 2L

:N, D. R.
: Alert Bay Oil Spill: A One-Year Study of Recovery of a Contaminated Bay,
6-11463 9-21 5C

agic Tar in the North Pacific Ocean,
6-11009 9-20 5A

EN, D. W.
velopment and Field Testing of a Basin drology Simulator,
6-05745 9-12 2A

EN, E. J.
e Direct Titration of Water-Soluble Sulfide Estuarine Muds of Montsweag Bay, Maine,
6-07415 9-14 5A

derground Irrigation System,
6-08406 9-16 3F

EN, F. H. W.
anges in Artificial Drainage, Fertilisers, and imate in Scotland,
6-00742 9-02 3F

EN, H. W.
aste Converter,
6-01539 9-04 5E

EN, J.
eshwater Ecology in the Mato Grosso, Cen- l Brazil, IV: Associations of Testate izopoda,
6-04594 9-10 5C

EN, J. H.
ew Methods Under Investigation for the tilization of Fish Solubles, A Fishery product, as a Means of Pollution Abatement,
6-04736 9-10 5G

EN, L.
pplication of a Computer-Based Chromato- aph for Automated Water Pollution Analyses,
6-10038 9-19 5A

EN, L. P.
cological and Physiological Implications of reenbelt Irrigation,
6-08840 9-17 5D

EN, O.
erric Chloride and Organic Polyelectrolytes r the Removal of Phosphorus,
6-07059 9-14 5D

EN, P. S.
ome Issues Regarding Regulatory Policy, olitical Participation, and Social Implications Geothermal Resource Development in the nperial Valley,
6-11328 9-21 6E

EN, R. E.
ield Study of Solute Movement in a Highly ggregated Oxisol with Intermittent Flooding: . Picloram,
6-00718 9-02 5B

EN, R. H.
ptake of Mercury by Freshwater Clams Family Unionidae),
6-02331 9-05 5A

GREEN, T.
Horizontal Turbulent Energy Transfer Associated with a Great Lakes Coastal Current,
W76-02411 9-05 2H

GREENBERG, E.
Analysis of Theories and Methods for Estimating Benefits of Protecting Urban Flood Plains,
W76-01595 9-04 6B

GREENBERG, M.
An Analytical Method for Determining Heat Transfer from Power Plant Coolant in the Florida Boulder Zone,
W76-12777 9-24 5B

GREENBERG, M. R.
Water Quality Monitoring and River Basin Planning: A Critique and Some Recommendations,
W76-02378 9-05 5A

GREENE, J. C.
Application of Algal Assays to Define the Effects of Wastewater Effluents upon Algal Growth in Multiple use River Systems,
W76-06699 9-13 5C

Comparison of the Algal Growth Responses of Selenastrum Capricornutum Printz and Anabaena Flos-Aquae (Lyngb.) De Brebisson in Waters Collected from Shagawa Lake, Minnesota,
W76-06701 9-13 5C

The Relationship of Laboratory Algal Assays to Measurements of Indigenous Phytoplankton in Long Lake, Washington,
W76-06700 9-13 5C

Utilization of Algal Assays to Assess the Effects of Municipal, Industrial and Agricultural Wastewater Effluents upon Phytoplankton Production in the Snake River System,
W76-00342 9-01 5A

Utilization of Algal Assays to Assess the Effects of Municipal, Industrial, and Agricultural Wastewater Effluents Upon Phytoplankton Production in the Snake River System,
W76-05472 9-11 5C

GREENE, J. T.
Reforming Procedures for Industrial Siting,
W76-06058 9-12 6E

GREENE, K. L.
Experiments and Observations on the Feeding Behavior of the Freshwater Leech Erpobdella Octoculata (L.) (Hirudinea: Erpobdellidae),
W76-12729 9-24 5C

GREENE, M. L.
Line Motion and Water Current Disc Sensor,
W76-05539 9-12 7B

GREENFIELD, C.
Process and Apparatus for Recovering Clean Water and Solids from Dilute Aqueous Solids,
W76-03011 9-07 5D

Process and Apparatus for Recovering Clean Water From Aqueous Wastes,
W76-08408 9-16 5D

GREENFIELD, M. D.
Possible Effects of Construction and Operation of a Supertanker Terminal on the Marine Environment in the New York Bight,
W76-13089 9-24 6G

GREENFIELD, S. M.
Ultimate Disposal of Wastewaters,
W76-03841 9-08 5E

GREENHOUSE, G.
Environmental Quality Research, First Annual Report,
W76-09654 9-18 5C

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Solution for Radial-Flow with Nonlinear Adsorption,
W76-08345 9-16 5B

GREENLEAF, J. E.
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W76-09655 9-18 10C

GREENLUND, T. W.
Hatfield Township, Pennsylvania, Advanced Waste Treatment Plant,
W76-02761 9-06 5D

GREENSMITH, J. T.
Holocene Transgressions and Regressions on the Essex Coast, Outer Thames Estuary,
W76-01193 9-03 2L

GREENSPAN, L.
Performance Characteristics of 'Bulk Effect' Humidity Sensors,
W76-00886 9-02 7B

GREER, G. L.
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W76-10333 9-19 5C

GREER, J. D.
Erosion Control With No-Till Cropping Practices,
W76-04680 9-10 4D

GREER, R. E.
Mesoscale Component of the Geostrophic Flow and its Temporal and Spatial Variability in the California Current off Monterey Bay in 1973-74,
W76-12387 9-23 2L

GREESON, P. E.
Methods for Collection and Analysis of Aquatic Biological and Microbiological Samples,
W76-03915 9-08 5A

GREFRATH, B. C.
The Federal Water Pollution Control Act and Forestry,
W76-03586 9-08 5G

GREGG, D. O.
Movement of Chemical Contaminants in Ground Water,
W76-00410 9-01 5B

Movement of Chemical Contaminants in Ground Water,
W76-08905 9-17 5B

GREGG, R.
Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Dairy Product Processing Point Source Category,
W76-01211 9-03 5G

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Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Soap and Detergent Manufacturing Point Source Category,
W76-01203 9-03 5G

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Textile, Friction Materials and Sealing Devices Segment of the Asbestos Manufacturing Point Source Category,
W76-10595 9-20 5G

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W76-09688 9-18 5A

GREGORY, E. J.
Predicting Consumptive use with Climatological Data,
W76-10873 9-20 2D

GREGORY, N. J.
An Evaluation of the Use of Gamma Radiation in Sewage Treatment,
W76-05803 9-12 5D

GREIFENDER, J. G.
Tannery Effluent,
W76-07504 9-15 5D

GREIG, R. A.
Mercury Concentrations in Fish, North Atlantic Offshore Waters--1971,
W76-08360 9-16 5A

GREIJ, E. D.
The Effects of a Marsh on Water Quality,
W76-05182 9-11 5G

GREILER, B.
Pollutant Analysis Cost Survey,
W76-10259 9-19 5A

GREINER, G.
Fundamentals of Eliminating Organic Water Pollutants with Polyethylene (Grundlagen Der Eliminierung Organischer Wasserbelastungsstoffe Mit Polyaethylen),
W76-01555 9-04 5D

GREISMAN, P.
Toward New Mass and Heat Budgets for the Arctic Ocean,
W76-01297 9-03 2C

GREIVE, R.
Study of the Genus Vibrio in Drinking Water, (In Spanish),
W76-06731 9-13 5C

GRENDA, D. W.
Process for Recovering Tin Salts from the Waste Rinse Water of a Halogen Tin Plating Process,
W76-05025 9-11 5D

GRENFELL, T. C.
The Spectral Distribution of Light Beneath First-Year Sea Ice in the Artic Ocean,
W76-02923 9-06 2C

GRENNEY, W. J.
Capability of Integer Programming Algorithms in Solving Water Resource Planning Problems,
W76-05183 9-11 6A

Comparison of Semi-Continuous and Continuous Flow Bioassays,
W76-06705 9-13 5C

Development of a Dynamic Programming Model for the Regionalization and Staging of Wastewater Treatment Plants,
W76-09845 9-18 5D

Development of a Water Quaity Simulation Model Applicable to Great Salt Lake, Utah,
W76-10815 9-20 5B

Ecosystem Modeling,
W76-09645 9-18 5C

The Effects of Media Modifications upon Selenastrum Capricornutum in Batch Cultures,
W76-06706 9-13 5C

Effects of Temperature on Oil Refinery Waste Toxicity,
W76-03786 9-08 5C

Effects of Temperature on Oil Refinery Waste Toxicity,
W76-12711 9-24 5C

Estimating Flow Conditions for River Models,
W76-11136 9-21 5B

Optimization of Water Allocation, Wastewater Treatment, and Reuse Considering Non-Linear Costs, Seasonal Variations, and Stochastic Supplies,
W76-02636 9-06 5D

GRESSER, J.
The 1973 Japanese Law for the Compensation of Pollution Related Health Damage: An Introductory Assessment,
W76-07369 9-14 6E

GRGIN, J. M.
Rehabilitating an 80-Year Old Sewer System,
W76-05764 9-12 5D

GRIB, I. V.
The Statistical Approach to the Study of the Small Rivers Hydrochemical Regime in Western Polesye of the Ukrainian SSR, (In Russian),
W76-11536 9-21 5A

Winter Hydrochemical Conditions of Small Rivers in the Polesye of the Ukrainian SSR (The Pripyat Basin), (In Russian),
W76-12303 9-23 5C

GRIBBLE, W. C. JR.
Perspectives on the Army Engineers Water Management Mission,
W76-05211 9-11 6E

GRICE, G. D.
Acid-Iron Waste as a Factor Affecting the Distribution and Abundance of Zooplankton in the New York Bight: I. Laboratory Studies on the Effects of Acid Waste on Copepods,
W76-09700 9-18 5C

Occurrence, Viability and Significance of Resting Eggs of the Calanoid Copepod Labidocera Aestiva,
W76-12737 9-24 6G

GRIEG, R. A.
Trace Metal Content in the American Oyster,
W76-11964 9-22 5C

GRIER, C. C.
Nutrient Cycling in 37- and 450-Year-Old Douglas-Fir Ecosystems,
W76-05619 9-12 5B

GRIEVES, F. L.
Classical Writers of International Law and the Environment,
W76-06825 9-14 6E

GRIEVES, R. B.
Advances in Interfacial Phenomena of Particulate/Solution/Gas Systems; Applications to Flotation Research,
W76-10627 9-20 5D

Precipitate Flotation of Calcium Sulfite from Dilute Aqueous Solution with an Anionic Surfactant,
W76-10631 9-20 5D

GRIFFES, D. A.
Costs of Wastewater Treatment by Land Application,
W76-09774 9-18 5D

GRIFFIN, E. L.
Water-Recycle Washing of Refined Soybean Oil: Plant Scale Evaluation,
W76-08171 9-16 3E

GRIFFIN, G. C.
The Economic Value of Water for Selected Uses in Southwestern North Dakota,
W76-05350 9-11 6B

GRIFFIN, G. F.
Pollution Abatement of Poultry Manure BY Maxi-Mixing Method,
W76-07202 9-14 5D

GRIFFIN, J. M.
Methdological Issues in the Econometric Estimation of Energy Demand Elasticities,
W76-09607 9-18 6A

GRIFFIN, L.
The Development of a Simple Waste Treatment System for U.S. Naval Vessels,
W76-10256 9-19 5D

GRIFFITH, J. S.
Annulus Formation and Growth of Tigerfish, Hydrocynus Vittatus, in Lake Bangweulu, Zambia,
W76-12767 9-24 5C

GRIFFITHS, J. F.
An Evaluation of Weather Modification Activities in the Texas High Plains,
W76-03104 9-07 3B

GRIFFITHS, M.
The Toxicity of Crude Oil and Its Components to Freshwater Algae,
W76-09321 9-17 5C

GRIGALUNAS, T. A.
Offshore Petroleum and New England - A Study of the Regional Economic Consequences of Potential Offshore Oil and Gas Development,
W76-09893 9-18 6B

GRIGG, J. L.
Prediction of Plant Response to Fertilisers by Means of Soil Tests,
W76-00491 9-01 3F

GRIGG, N. S.
Computing the Big Picture,
W76-02874 9-06 3D

Detention Storage Control Strategy Development,
W76-07236 9-14 5D

velopment of Storm Drainage Cost Functns,
'6-08227 9-16 3D

aluation and Implementation of Urban ainage Projects,
76-00201 9-01 4A

nimization of Combined Sewer Overflows Large-Scale Mathematical Programming,
76-02878 9-06 5D

ecipitation Management for Reclamation of ergrazed Areas in Arid and Semi-Arid Reons,
76-05603 9-12 2B

GGS, G. B.
mparative Discharges of Fresh and Waste ater Along the California Coast,
76-01914 9-04 5B

rm, Genesis, and Deformation of Central lifornia Wave-Cut Platforms,
76-07552 9-15 2L

GGS, K. S.
dmium Concentrations in Rock Scallops in mparison with some other Species,
76-12715 9-24 5C

GOR'EV, V. Y.
ethod of Evaluating the Effectiveness of echniques for Increasing the Resistance of ils to Erosion, (In Russian),
76-09805 9-18 4D

GOR'YEV, A. A.
ntribution to the Problem of Computing ecipitation over Mountain Drainage Basins,
76-07082 9-14 2B

GORYUK, I. A.
ffect of Water and Nutrient Regimes of Peat il on the Qualitative Composition of Starch Potato Tubers, (In Russian),
76-07990 9-15 3C

GYALIS, A. I.
pulation Structure of the Dominating Benthic rganisms of Lake Dusia: 1. Potamothrix Hamoniensis Mich. in 1969-1971, (In Russian),
76-02994 9-06 2H

HANGNE, A.
loating Marine Barrage,
76-04273 9-09 5G

MAS, U.
wedish Studies on Combination Effects of hermal Discharges in the Aquatic Environent, Some Aspects of Power Plant Siting Poly,
76-09495 9-18 5C

MBLE, R. E.
rift Deposition Rates from Wet Cooling ystems,
76-04830 9-10 5B

MES, B.
ntrapment of Fishes on Intake Water Screens a Steam Electric Generating Station,
76-01939 9-04 8I

MES, D. W.
lanting Pattern, Plant Population, Irrigation, nd Insect Interactions in Cotton.
76-09998 9-18 3F

GRIMSRUD, G. P.
A Quantitative Method for Effluent Compliance Monitoring Resource Allocation,
W76-02269 9-05 5G

GRIMWOOD, P. D.
Caesium-137: Its Accumulation in a Littoral Community,
W76-11808 9-22 5C

GRINBLAT, O. M.
Experience in the Sanitary Protection of Water Bodies in a Raion of Moscow, (In Russian),
W76-03637 9-08 5D

GRINVAL'D, D. I.
Dissipation of Turbulent Energy in a Natural Channel,
W76-08744 9-16 8B

GRISHCHENKO, N. F.
Sanitary and Hygienic Evaluation of the Water of the Uzhgorod Water Supply System, (In Russian),
W76-12313 9-23 5A

GRIZZARD, E. H.
Clarification Tank,
W76-10486 9-19 5D

GROB, G.
Organic Substances in Potable Water and in its Precursor: II. Applications in the Area of Zurich,
W76-07956 9-15 5A

GROB, K.
Organic Substances in Potable Water and in its Precursor: II. Applications in the Area of Zurich,
W76-07956 9-15 5A

GROCHMALICKA, J.
Determination of Boron in Drinking Water from Koszalin Province, (In Polish),
W76-12261 9-23 5A

GROELZ, J. C.
Anti-Run Ahead System for Traveling Hose Pull Sprinklers,
W76-06465 9-13 3F

GROENEWOLD, G. H.
Hydrogeologic and Other Considerations Related to the Selection of Sanitary-Landfill Sites in Ohio,
W76-10084 9-19 5D

GROINIER, W. S.
Correlation of Radioactive Waste Treatment Costs and the Environmental Impact of Waste Effluents in the Nuclear Fuel Cycle for Use in Establishing as Low as Practicable Guides-Fabrication of Light-Water Reactor Fuels Containing Plutonium,
W76-12694 9-24 5C

GROMOV, A. I.
Design and Construction of Hydraulic Structures on Permafrost,
W76-02913 9-06 8A

GROMOV, V. V.
Accumulation of the Iron Group Elements by Phytoplankton, (In Russian),
W76-02772 9-06 5B

GRONEMAN, A. F.
Effects of Gamma Radiation at Pilot Plant Level Compared with the Effects of Pasteurization on the Dewatering of Sewage Sludge,
W76-09550 9-18 5D

GRONKVIST, S.
Chemical Precipitation of Wastewaters with Lime (Kemisk fallning av avloppsvatten med kalk),
W76-05585 9-12 5D

GROOT, J. M.
The Performance of Surface and Sub-Surface Drainage of Heavy Clay Soils in Yugoslavia,
W76-06116 9-12 2G

GROOVER, R. D.
Chevron Main Pass Block 41 Oil Spill: Chemical and Biological Investigations,
W76-00145 9-01 5A

GROSS, A. J.
Applications of Linear Time Series Models and Stepwise Regression Models to Selected Water Quality Data on the Connecticut River,
W76-06157 9-13 5B

A Review of Statistical Procedures used for Examination of Water Data,
W76-01509 9-04 7A

GROSS, G. W.
C. E. Jacob's Study on the Prospective and Hypothetical Future of the Mining of the Ground Water Deposited Under the Southern High Plains of Texas and New Mexico,
W76-03363 9-07 4B

GROSS, T. A.
An Innovative Organizational Arrangement for Comprehensive Water Services: The Thames Water Authority as a Model for Complex Areas of the Great Lakes,
W76-01815 9-04 6E

GROSSE, B.
Investigations on the Erodibility of a Deeply Plowed Gray-Brown Podzolic Soil from Loess on a Slope by Means of Simulated Rain, (In German),
W76-09917 9-18 2J

GROSSENBACHER, R.
Aluminum and Water Treatment. The 'Guldager' Electrolytic Process (L'Aluminum et le Traitment des Eaux. Le Procede Electrolytique 'Guldager'),
W76-01736 9-04 5F

GROSSMAN, A.
The Effect of Flocculants on Postcoagulation Sludge Dewatering (Wplyw flokulantow na odwadnialnosc osadow pokoagulacyjnych),
W76-09174 9-17 5D

GROSSMAN, E. III
Elemental Analysis of Wastewater Sludges from 33 Wastewater Treatment Plants in the United States,
W76-05080 9-11 5D

GROTBECK, L. M.
Fish Impingement at Monticello Nuclear Plant,
W76-07211 9-14 8I

GROTH, E.
An Evaluation of the Potential for Ecological Damage by Chronic Low-Level Environmental Pollution by Fluoride,
W76-08038 9-15 5C

GROTH, E. III.
Fluoride Pollution,
W76-00975 9-02 5C

GROTH, R. H.
Improvements in Phenoldisulfonic Acid Method for Determination of Nox,
W76-02557 9-06 5A

GROTHE, D. R.
Chlorine-Induced Mortality in Fish,
W76-03775 9-08 5C

GROUNDS, H. C.
Installation for Sewage Treatment,
W76-01715 9-04 5D

Installation for Sewage Treatment,
W76-02211 9-05 5D

GROUT, A. R.
Controlling Manure Runoff,
W76-00444 9-01 5D

Solid Waste Handling,
W76-03977 9-08 5E

GROVER, J. R.
Reverse Osmosis Apparatus,
W76-04286 9-09 3A

GROVER, S. N.
A Numerical Determination of the Efficiency with Which Electrically Charged Cloud Drops and Small Raindros Collide with Electrically Charged Spherical Particles of Various Densities,
W76-03108 9-07 2B

GROVES, G. W.
An Orthogonalized Convolution Method of Tide Prediction,
W76-12192 9-23 2L

GROZIER, R. U.
Salt-Load Computations--Colorado River; Cameo, Colorado to Cisco, Utah: Part 1. Data Summary,
W76-10142 9-19 7C

Salt-Load Computations--Colorado River; Cameo, Colorado, to Cisco, Utah: Part 2. Basic Data,
W76-10143 9-19 7C

GRUB, W.
Cattle Feedlot Pollution Study,
W76-01045 9-03 5E

Some Physical and Economic Aspects of Water Pollution Control for Cattle Feedlot Runoff,
W76-01034 9-03 5E

GRUBE, H-J.
The Macrophytic Vegetation of Running Waters in South Lower Saxony and Their Relations to Water Pollution, (In German),
W76-11574 9-21 5C

GRUBERT, J. P.
Numerical Computation of Two-Dimensional Flows,
W76-08341 9-16 2L

GRUENWALD, D. D.
Recycle of Liquor From Heat Treatment of Sludge,
W76-03200 9-07 5D

GRUGLER, J. FR.
Ways to an Economic Water Use Demonstrated by the Example of a Small Cotton Dyeing Plant (Wege Zur Wirtschaftlichen Wasserverewendung am Biespiel Einer Kleinen Baumollfaerberei),
W76-02804 9-06 5D

GRUHLER, J.
For Which Load Shall Municipal Purification Plants be Dimensioned. (Fuer Welche Belastung Sollen Kommunale Klaeranlagen Bemessen Werden),
W76-05609 9-12 5D

GRUHLER, J. F.
Comparison of some Calculation Methods for Rainwater Runoff (Vergleich Einiger Berechnungsmethoden von Regenwasser-Kanalisationen),
W76-01426 9-03 2A

GRUHLER, J. FR.
Wastewater Treatment in Small Textile Finishing Plants a Procedural System. (Abwasserbehandlung in Kleineren Textilveredlungsbetrieben--Ein Verfahrenssystem),
W76-07747 9-15 5D

GRUIA, L.
Some Ecologic Considerations on the Flora and Fauna of the Southern Part of the Musura Bay (The Delta of the Danube into the Black Sea), (In French),
W76-02909 9-06 2L

GRULA, E. A.
Feasibility of Microbial Decomposition of Organic Wastes Under Conditions in Deep Wells,
W76-12688 9-24 5D

GRULA, M. M.
Feasibility of Microbial Decomposition of Organic Wastes Under Conditions in Deep Wells,
W76-12688 9-24 5D

GRUNE, J.
Large Wave Channel for 'Full Scale-Modeling' of Wave Dynamics in Surf Zones,
W76-09946 9-18 8B

GRUNERT, H.
Waste Water Problems of Desizing With Respect to Legislative Measures (Abwasserprobleme Beim Entschlichten Unter Beruecksichtigung Gesetzgerberischer Massnahmen),
W76-04031 9-09 5D

GRUNERT, W. E.
Hypolimnion Oxygenation,
W76-11454 9-21 5G

GRUNEWALD, O. C.
Rural Residential Water Demand in Kentucky: An Econometric and Simulation Analysis,
W76-05252 9-11 6D

GRUNWALDT, J. J.
Ground-water Quality Beneath Solid-Waste Disposal Sites at Anchorage, Alaska,
W76-00656 9-02 5B

GRUTSCH, J. F.
Chemical Coagulation/Mixed Media Filtration of Aerated Lagoon Effluent,
W76-02763 9-06 5D

Optimize the Effluent System - Part 4: Approach to Chemical Treatment,
W76-12667 9-23 5D

Tertiary Treatment of Process Water,
W76-01634 9-04 5D

GUARD, H. E.
Determination of Hydrocarbons in Marine Organisms and Sediments by Thin Layer Chromatography,
W76-10407 9-19 5A

Effect of a Bunker Fuel on the Beach Bacterial Flora,
W76-09326 9-17 5C

The Fate of a Bunker Fuel in Beach Sand,
W76-09328 9-17 5C

Identification and Potential Biological Effects of the Major Components in the Seawater Extract of a Bunker Fuel,
W76-03781 9-08 5A

Identification and Potential Biological Effects of the Major Components in the Seawater Extract of a Bunker Fuel,
W76-11099 9-20 5A

GUARINO, C. F.
Computer Based Control for Wastewater Systems,
W76-10019 9-19 5D

Land and Sea Solids Management Alternatives in Philadelphia,
W76-07033 9-14 5E

GUARINO, P.
Possible use of High-Level Radiation for the Degradation of Some Substances Present in Urban and Industrial Waters,
W76-09533 9-18 5D

GUBANOV, A. A.
Exploitation of the Waters of Subpermafrost Artesian Basins,
W76-05930 9-12 3B

GUBANOV, B. A.
Exploitation of the Waters of Subpermafrost Artesian Basins,
W76-05930 9-12 3B

GUBSCH, G.
The Total Aerobic Heterotrophic Bacteria Germ Content of Water from the Series of Shallow Inlets to the South of Darss Found by Investigation Using the Cast Plate and the MPN Methods, (In German),
W76-10897 9-20 5A

GUCUNSKI, D.
Seasonal Oscillations in Phytoplankton in the Protected Region of the Swampy Area of Kopachevo (Kopacki Rit), (In Serbo-Croatian),
W76-05000 9-10 5C

GUDERNATSCH, H.
Apparatus for the Aeration of Effluent with Oxygen-Containing Gas,
W76-05035 9-11 5D

GUDMANDSEN, P.
Layer Echoes in Polar Ice Sheets,
W76-05379 9-11 2C

GUDMUNDSSON, G.
Seasonal Variations and Stationarity,
W76-07784 9-15 2A

GUEGUENIAT, P.
Determination of Radionuclides of Ce, Co, Fe, Ru, Zn and Zr in Seawater by Preconcentration of Colloidal Manganese Dioxide, Application to the Determination of Low Level Ruthenium 106,
W76-08618 9-16 5A

GUERARD, T. B.
Presentation Concerning Pollution Control Facilities Revenue Bonds,
W76-09767 9-18 5G

ERNSEY, D. L.
ood Oxygen Capacities of Eels Acclimated to esh-, Brackish-, and Salt-Water Environents,
76-03015 9-07 5C

ERON, I.
esent-Day and Future Problems Concerning e Purification of Water Used in Raising Pigs, n French),
76-13055 9-24 5D

ERRA, L. V.
quatic Plant Control Program for Alligator eed and Water Hyacinth in Texas,
76-11147 9-21 5G

ERRERO-SALAZAR, P.
nalysis of Drought Characteristics by the neory of Runs,
76-04310 9-09 2E

ETZKOW, L. C.
nall-Stream Flood Investigations in Minesota, October 1958 to September 1973,
76-00085 9-01 7C

EVARA-PEREZ, E.
lood Water Analysis in the Area of the Tidal iver Eider (Hochwasseranalyse im Raum der inneneider),
76-01428 9-03 2E

IDE, V.
ummary and Conclusions: Nutrient Transport nd Accountability in the Lower Susquehanna iver Basin,
76-06575 9-13 5B

ILE, P. J. D.
tructural Model Studies for the Hendrik Verwoerd Dam,
76-12523 9-23 8A

ILLARD, R. R. L.
keletonema Menzelii Sp. Nov., A New Diatom from the Western Atlantic Ocean,
76-12766 9-24 2L

INAN, D. K.
dentification of Organic Compounds in Effluents from Industrial Sources,
76-11598 9-21 5A

INASSO, N. L. JR.
rocesses Affecting the Concentration of Silica t the Sediment-Water Interface of the Atlantic cean,
76-00304 9-01 2L

Quantitative Estimates of Biological Mixing ates in Abyssal Sediments,
76-00010 9-01 2L

ITJENS, J. C.
Upper Carson River Water Study, Water Year 973,
76-00006 9-01 2D

ITRON DE LOS REYES, A.
mproved Stochastic Dynamic Programming or Optimal Reservoir Operation Based on the symptotic Convergence of Benefit Differences,
76-02729 9-06 4A

ITRON, R. A.
tochastic Reservoir Models: Relative Computational Effort,
76-04557 9-10 4A

GUJER, H.
Aerobic Drying of Organic Waste,
W76-02822 9-06 5D

GULAYA, N. K.
Destruction of Organic Matter in Grounds of Kapchagai Reservoir, (In Russian),
W76-12320 9-23 5C

Seasonal Dynamics of Bacterioplankton of the Kapchagal Reservoir in the Third Year of its Filling, (In Russian),
W76-07279 9-14 5C

GULIAN, C.
Comparative Study of Poliovirus Concentration Methods From Water (Essais Comparatives De Methodes De Concentration Du Poliovirus aPartir Des Eaux),
W76-01444 9-03 5D

GUM, R. L.
Problems and Solutions in Estimating the Demand for and Value of Rural Outdoor Recreation,
W76-09633 9-18 6D

Problems and Solutions in Estimating the Demand for and Value of Rural Outdoor Recreation,
W76-10585 9-20 6B

GUMAA, G. S.
Sulfuric Acid for Reducing Sodium Hazard of Irrigation Water,
W76-02666 9-06 3C

GUMBATOV, R. T.
Effluents Biochemical Purification,
W76-02823 9-06 5D

GUMBS, F. A.
Bulk Density, Saturation Water Content and Rate of Wetting of Soil Aggregates,
W76-07084 9-14 2G

Comparison of Laboratory and Field Determined Saturated Hydraulic Conductivity and Prediction from Soil Particle Size,
W76-07698 9-15 2G

GUMTZ, G. D.
Preliminary Design of a Comprehensive Waste Oil Processing Facility,
W76-09894 9-18 5D

GUN'KO, A. F.
Biological Background of the New Element of Sturgeon Artificial Rearing Methods, (In Russian),
W76-08663 9-16 8I

GUNARD, K. T.
Small-Stream Flood Investigations in Minnesota, October 1958 to September 1973,
W76-00085 9-01 7C

GUNDERMANN, N.
Some Aspects of Recolonization of Coral Rocks in Eilat (Gulf of Aqaba) by Fish Populations After Poisoning,
W76-10058 9-19 5C

GUNIN, P. D.
Water Expenditure on Transpiration by Plants Communities Dominant in Eastern Kara Kum, (In Russian),
W76-10341 9-19 2D

GUNKEL, W.
Some Reflections on the Biodegradation of Mineral Oils in the Marine Environment,
W76-11016 9-20 5B

GUNN, A. S.
Modern Filter Press Technology for Sewage Sludge Dewatering,
W76-09021 9-17 5D

GUNN, I. W.
Wastewater Treatment in New Zealand,
W76-09670 9-18 5D

GUNNEBERG, F.
The Total Heat-Exchange Coefficient of Surface Waters,
W76-08867 9-17 5B

GUNTERMANN, K.
Soil Loss from Illinois Farms - Economic Analysis of Productivity Loss and Sedimentation Damage,
W76-08533 9-16 4D

GUNTERMANN, K. L.
The Off-Site Sediment Damage Function in Selected Illinois Watersheds,
W76-03126 9-07 4D

A Procedure for Estimating Off-Site Sediment Damage Costs and an Empirical Test,
W76-09632 9-18 4A

GUO, P. H. M.
Factors Affecting Activated Sludge Treatment of Kraft Bleachery Effluent,
W76-07684 9-15 5D

GUPTA, B. S.
Behaviour of Some Phosphatic Fertilizers in Water,
W76-06139 9-12 5B

GUPTA, J. M.
Optimal Design of Wastewater Collection Systems,
W76-13165 9-24 5D

GUPTA, N. N.
Mathematical Modelling of an Aquatic Ecosystem: I,
W76-01195 9-03 5B

GUPTA, S. K.
Acidified Alum Sludge and Fly-Ash as Adjunct to Coagulation,
W76-00262 9-01 5F

Computer Program for Three-Dimensional Plottings from Irregular Finite Element Grid,
W76-11327 9-21 2F

Control of Surfactant Pollution,
W76-00273 9-01 5F

Sewage Treatment with Activated Fly-Ash and Regenerated Alum Sludge,
W76-09183 9-17 5D

Studies on Use of Flyash in Conjunction with Alum for Coagulation of Turbid Water,
W76-00232 9-01 5F

A Three-Dimensional Galerkin Finite Element Solution of Flow Through Multiaquifers in Sutter Basin, California,
W76-09562 9-18 2F

GUPTA, S. P.
Solution for Radial-Flow with Nonlinear Adsorption,
W76-08345 9-16 5B

GUPTA, V. K.
On The Joint Distribution of the Largest Flood and its Time of Occurrence,
W76-11694 9-22 2E

GUPTA, V. L.
Time of Concentration of Overland Flow,
W76-11958 9-22 2E

GUREGHIAN, A. B.
The Calculation of Steady-State Water-Table Heights in Drained Soils by Means of the Finite-Element Method,
W76-03743 9-08 2G

GURG, R. P.
Seasonal Feature of Thermal Abatement of Shoreline Discharges at Nuclear Sites,
W76-08862 9-17 5G

GURLEY, D. G.
How to Perform a Through-Tubing Gravel Pack,
W76-10113 9-19 8G

GURLEY, G. E.
Erosion Control With No-Till Cropping Practices,
W76-04680 9-10 4D

GURNELL, A. M.
A Note on the Contribution of Fog Drip to Streamflow,
W76-10927 9-20 2B

GURTISEN, J. M.
Ecological Characterizations of the Boardman Site and Environs-Morrow County, Oregon,
W76-04841 9-10 5C

GURTZ, M. E.
Effect of Thermal Stress on Phytoplankton Productivity in Condenser Cooling Water,
W76-03490 9-07 5C

Response of Phytoplankton to Thermal Stress,
W76-08644 9-16 5C

GUS'KOVA, V. N.
Biological Effects of Ru106 and J131 on Water Organisms,
W76-06885 9-14 5C

Some Data on Comparative Evaluation of Radioactive and Chemical Pollution Factors in Freshwater Reservoirs,
W76-06886 9-14 5B

GUSAROVA, T. I.
Experience in the Sanitary Protection of Water Bodies in a Raion of Moscow, (In Russian),
W76-03637 9-08 5D

GUSEINOV, B. Z.
The Effect of Soil Moisture on Content of Various Fractions of Protein Nitrogen in Plants, (In Azerbaijanian),
W76-00450 9-01 3F

GUSEINOV, M. K.
Characteristics of Hydrological and Hydrochemical Conditions of Arakum Water Bodies, (In Russian),
W76-04532 9-10 5C

GUSEINOV, R. K.
Transformation of Concentrated and Complex Phosphorus Fertilizers in Modow-Bog Soil with a High Moisture Content, (In Azerbaijani),
W76-09786 9-18 5B

GUSTINIS, J.
Geochronology of Lake Michigan Sediments: Anomalies in Lead-210 Distributions,
W76-05885 9-12 5B

GUSYNSKAYA, S. L.
Seston of the Kiev Water Reservoir and Quantitative Ratios of Its Components, (In Russian),
W76-12302 9-23 5C

GUT, B. J.
Water Plants of the World. A Manual for the Identification of the Genera of Freshwater Macrophytes,
W76-06745 9-13 2I

GUTEL'MAKHER, B. L.
Photosynthetic Activity of Individual Algal Species of the Plankton of Lake Krivoye, (In Russian),
W76-02206 9-05 5C

Relative Importance of Single Algae Species in Planktonic Primary Production, (In Russian),
W76-07263 9-14 5C

GUTENMANN, W. H.
Flame Retardant Release from Fabrics During Laundering and Their Toxicity to Fish,
W76-00340 9-01 5C

GUTENTAG, E. D.
Ground-Water Resources of Lane and Scott Counties, Western Kansas,
W76-12298 9-23 4B

GUTHRIE, J. E.
An Assessment of Nuclear Power Plant Waste Heat Utilization for Freshwater Fish Farming,
W76-12682 9-24 5C

GUTHRIE, R. K.
Alteration of Microbial Populations in Thermal Stress,
W76-11629 9-22 5D

Bacterial Populations of Aquatic Systems Receiving Different Types of Stress,
W76-11704 9-22 5C

Significance of Detritus or Detritus-Associated Invertebrates to Fish Production in a New Impoundment,
W76-03654 9-08 5C

GUTIERREZ, M.
Periodicity in the Biometric Variations of Loxechinus Albus Molina, (In Spanish),
W76-09089 9-17 2I

GUTMANIS, I.
Estimates of Industrial Waterborne Residuals Control Costs: A Review of Concepts, Methodology, and Empirical Results,
W76-11160 9-21 5G

GUTNICK, D.
Cleaning of Cargo Compartments,
W76-08198 9-16 5G

GUTTERIDGE, R. L.
Source Identification of Fuel Oil Spills,
W76-11314 9-21 5A

GUVEN, O.
Surface Roughness Effects on the Mean Flow Past Circular Cylinders,
W76-02402 9-05 8B

GUY, H. P.
The 1973 Mississippi River Basin Flood: Compilation and Analyses of Meteorologic, Streamflow, and Sediment Data,
W76-05860 9-12 2E

GUY, T. B.
Suppression of Domestic Water Hammer Noise by a Simple Wave Dispersion Technique,
W76-05408 9-11 8G

GUYER, E. C.
A Model for Salt Drift Deposition from Spray Ponds,
W76-08866 9-17 3B

GUYMON, G. L.
Thermal Analysis of Frozen Embankment Islands,
W76-12200 9-23 2L

GUYRE, P.
Antimicrobial-Resistant Coliforms in New York Bight,
W76-11590 9-21 5C

GUZA, R. T.
Edge Waves and Beach Cusps,
W76-00558 9-02 2L

The Resonant Instabilities of Long Waves Obliquely Incident on a Beach,
W76-04300 9-09 2L

GUZDAR, A. R.
Feasibility of Hydraulic Transport of Ground Household Refuse Through Sewer Appurtenances,
W76-05070 9-11 5D

GUZZI, L.
A Site Study of the Multiple Effects of Thermal Releases on the Aquatic Life in an Estuarine Area,
W76-09505 9-18 5C

GWINN, W. R.
Dependable Yield of Reservoirs with Intermittent Inflows,
W76-05908 9-12 4A

Discharge Equations for HS, H, and HL Flumes,
W76-05918 9-12 8B

A Laboratory Evaluation of Trash Racks for Drop Inlets,
W76-12189 9-23 8B

Stepped Baffled Trash Rack for Drop Inlets,
W76-09250 9-17 8B

HAAN, C. T.
Evaluation of a Monthly Water Yield Model,
W76-09246 9-17 2A

Overview of Rainfall-Runoff Process in Urban Areas,
W76-09730 9-18 2A

Rural Residential Water Demand in Kentucky: An Econometric and Simulation Analysis,
W76-05252 9-11 6D

Supply and Demand in Water Planning: Streamflow Estimation and Conservational Water Pricing,
W76-05607 9-12 6D

Using Parametric Models of Runoff to Improve Parameter Estimates for Stochastic Models,
W76-05911 9-12 2E

HAAS, J. L. JR.
Bibliography of Studies on the Density and Other Volumetric Properties for Major Components in Geothermal Waters, 1928-1974,
W76-06454 9-13 4B

.S, L.
rst Closed-Cycle Kraft Mill,
'76-12488 9-23 5D

.SE, J.
ocess for Purifying Industrial Effluents
erfahren zur Reinigung von industriellen Ab-
aessern),
'76-12507 9-23 5D

BER, W.
he Microflora of Aerobic Bacteria in Gravel
t Lakes, (In German),
'76-06777 9-13 5C

BIBIAN, M. R.
rticles, Polymers, and Performance in Filtra-
on,
'76-00229 9-01 5D

CKETT, J. E.
ssessing Physical Potential for Deep Disposal
f Industrial Wastes by Wells in the Southeast-
n United States,
'76-03840 9-08 5E

CKETT, P.
he Effect of Geological Features on the Oc-
urrence of Gas Outburst Fractures in the East
lidland Coalfield,
'76-00424 9-01 8E

CKL, A.
ecycling--Examples for Its Possibilities and
imits (Recycling--Beispiele fuer
Moeglichkeiten und Grenzen),
'76-08701 9-16 5D

DALA, P. F.
Evaluation of Empirical and Analytical
Procedures Used for Predicting the Rigid Body
Motion of an Earth Penetrator,
'76-07326 9-14 8G

DDAD, R.
Environmental Monitoring in Latin America
nd the Caribbean,
'76-10654 9-20 5A

DDAD, R. H.
Groundwater Resources of Altun-Kupri Area,
'76-06576 9-13 4B

DDEN, L. C.
Sewage Treatment and Recycling System,
'76-05988 9-12 5D

DERLIE, E. C.
Antifouling Coatings and their Influence on the
Marine Environment,
'76-10365 9-19 5G

DERLIE, E. E.
An Analysis of the Dynamics of DDT and Its
Derivatives, DDD and DDE, in Marine Sedi-
nents
'76-10050 9-19 5C

DIDJAJA, P.
Schistosomiasis and Other Human Parasitoses
of Lake Lindu in Central Sulawesi (Celebes),
Indonesia,
'76-12573 9-23 5C

DLEY, D.
Tolerance of Littorina Planaxis and Littorina
Scutulata to Temperature Changes,
'76-11798 9-22 5C

EDRICH, R. L.
Diversity and Overlap as Measures of Environ-
mental Quality,
'76-03024 9-07 6G

Quantitative Biological Assessment of the Benthic Fauna in Deep Basins of the Gulf of Maine,
W76-03783 9-08 5B

HAERTEL, L.
Remote Sensing of Water Quality in Prairie Lakes,
W76-02363 9-05 5A

HAFLEY, W. L.
Capacity of Water-Based Recreation Systems, Part III: Methodology and Findings,
W76-01804 9-04 6B

HAGAN, R. M.
Energy Requirements of Alternatives in Water Supply, Use and Conservation: A Preliminary Report,
W76-04800 9-10 6B

Irrigating Corn and Grain Sorghum with a Deficient Water Supply,
W76-08544 9-16 3F

Water Production Functions and Predicted Irrigation Programs for Principal Crops as Required for Water Resources Planning and Increased Water Use Efficiency,
W76-12236 9-23 3F

HAGAN, T. M.
Effects of Temperature and Salinity on Growth and Uptake of 65ZN and 137CS for Six Marine Algae,
W76-12238 9-23 5C

HAGARMAN, J. A.
Storm Water Management Model: Dissemination and User Assistance,
W76-00678 9-02 5G

HAGEMAN, L.
Analysis of Feed Grains and Forages for Traces of Cobalt by Flameless Atomic Absorption Spectroscopy,
W76-03410 9-07 5A

HAGEMANN, A. G. L.
The Effect of Domestic Waste Water on the Distribution of Gammarus Pulex L. and Gammarus Fossarum Koch in a Sub-Alpine Mountain Stream in Hessen, (In German),
W76-12304 9-23 5C

HAGEMEYER, R. R.
Coastal Zone Management Program Development Grants, Outer Continental Shelf,
W76-10755 9-20 6E

HAGEN, E.
The Effects of Freshwater Inflows on Hydrological and Biological Parameters in the San Antonio Bay System, Texas,
W76-03420 9-07 2L

HAGEN, L. J.
Soil Detachment From Clods by Simulated Rain and Hail,
W76-00030 9-01 2J

HAGER, B. L.
An Improved Method for the Isolation of Phenols from Water,
W76-08026 9-15 5A

HAGERTY, D. J.
Refuse into Power,
W76-08693 9-16 5D

HAGIWARA, K.
A Simple Metho dthe for Detection of Floating Oils on Water, (In Japan),
W76-04062 9-09 5A

Treatment Method for Liquid Waste Containing Surface Activators (Kaimen kasseizai o ganyu suru haisui no shoriho),
W76-02984 9-06 5D

HAGIWARA, M.
Radiation Recycling Process of Waste Poly(Tetrafluorethylene) Scrap,
W76-09556 9-18 5D

HAGLER, A. T.
Structure of Liquid Water. III. Thermodynamic Properties of Liquid Deuterium Oxide,
W76-02505 9-06 1A

HAGSTROM, A.
Effects of Oils on Baltic Littoral Community, as Studied in an Outdoor Model Test System,
W76-10411 9-19 5C

HAHN, H.
Study of the Relationship Between Efficacy of Purification and Construction and Operating Costs of Purification Plants (Untersuchung Ueber Die Beziehung Zwischen Reningungsgrad und Bau und Betriebskosten von Kaleranlagen),
W76-01448 9-03 5D

HAHN, H. H.
Laboratory Studies Concerning the Influence of the Type of Energy Dissipation on the Aggregation Process (Laborunter-Suchungen Ueber Den Einfluss Der Art Des Energieeintrages Auf Den Flockungsvorgang),
W76-01759 9-04 5D

Pollutional Effects of Suspended, Sedimented and Eroded Particulate Material in the Aqueous Environment,
W76-10663 9-20 5C

Technical and Economic Optimization of Regional Wastewater Management (Technische und Wirtschaftliche Operimierung Bei Der Bildung von Zweckverbaenden zur Abwasserbeseitigung),
W76-01277 9-03 5G

HAIMES, Y. Y.
Distributed Parameter Identification of Groundwater Systems by Nonlinear Estimation,
W76-11957 9-22 2F

Hierachical Management of Ground and Surface Water System via Multicell Approach,
W76-01501 9-04 4A

HAINES, P. D.
A Water Conductivity Recorder,
W76-03453 9-07 5A

HAINES, R. W.
Wetland's Reluctant Champion: The Corps Takes a Fresh Look at 'Navigable Waters',
W76-11976 9-22 4A

HAINS, J. J.
Saturation Values of Dissolved Gases Associated with the Occurrence of Gas-Bubble Disease in Fish in a Heated Effluent,
W76-03466 9-07 5C

Thermal and Water Quality Characteristics of Lake Norman,
W76-05872 9-12 5C

HAIRE, W. J.
Floods in the Carolina-Rio Grande Area, Northeastern Puerto Rico,
W76-01185 9-03 2E

Floods in the Fajardo-Luquillo Area, Northeastern Puerto Rico,
W76-02150 9-05 7C

HAITH, D. A.
Influence of Land Development and Land Use Patterns on Water Quality,
W76-02637 9-06 5B

Land Use and Water Quality in New York Rivers,
W76-08133 9-16 5B

HAJAS, .
Water Renovation Using Deep Natural Sand Beds,
W76-01765 9-04 5D

HAJAS, L.
Seasonal Variations in the Purification of Treatment Plant Effluent in Natural Sand Deposits,
W76-13121 9-24 5D

Water Renovation Using Deep Natural Sand Beds,
W76-01765 9-04 5D

HAJI, H.
Hydro-Separator for Slurry,
W76-02612 9-06 5D

HAKANSON, D. E.
Toxicity of Mine Drainage to Embryonic and Larval Boreal Toads (Bufonidae: Bufo Boreas),
W76-09115 9-17 5C

HAKANSON, L.
An Automatic Release Instrument with Underwater Buoy for Marking of Field Equipment,
W76-09268 9-17 7B

A Bottom Sediment Trap for Recent Sedimentary Deposits,
W76-07766 9-15 2J

HALCROW, W.
PCB Levels in Clyde Marine Sediments and Fauna,
W76-11589 9-21 5B

HALDERMAN, A. D.
Management for the Control of Salts in Irrigated Soils,
W76-02679 9-06 3C

HALE, E. B.
Chemical Composition and Yield of Soybeans as Affected by Irrigation and Deep Placement of Lime, Phosphorus and Potassium,
W76-06338 9-13 3C

Effects of Fertilization and Irrigation on Yield and Potassium Content of Alfalfa and on Available Soil Potassium,
W76-06243 9-13 3F

HALE, L. A.
The Effects of Currents and Waves on an Oil Slick Retained by a Barrier,
W76-02549 9-06 5G

HALE, S. S.
The Role of Benthic Communities in the Nitrogen and Phosphorus Cycles of an Estuary,
W76-10285 9-19 5C

HALES, J. M.
Rain Scavenging of SO2 and Sulfate from Power Plant Plumes,
W76-02712 9-06 5A

HALIBURTON, T. A.
Determination of Dispersive Clay Soil Erodibility by Using a Physical Test,
W76-12460 9-23 2G

Identification and Treatment of Dispersive Clay Soils,
W76-06611 9-13 8D

HALKO, R. A.
Oil Pollution Totalizer,
W76-04603 9-10 5A

HALL, A.
Some Ecological Aspects of the Cabora Bassa Dam,
W76-12945 9-24 6G

HALL, A. E.
Leaf Water Potential Response to Transpiration by Citrus,
W76-07256 9-14 2D

HALL, A. J.
Methods of Determining Areal Rainfall from Observed Data,
W76-04130 9-09 2B

HALL, A. R.
Ignition and Combustion in Situ of Oil from Wrecked Oil Tankers: Small Scale Burning Tests Carried Out at the RPE,
W76-04312 9-09 5G

HALL, C. A. S.
Look What's Happening to our Earth, (the Biosphere, the Industriosphere, and their Interactions.)
W76-04630 9-10 6G

Models and the Decision Making Process: The Hudson River Power Plant Case,
W76-02987 9-06 6G

HALL, D. C.
Geologic Control of Supply and Quality of Water in the Mountainous Part of Jefferson County, Colorado,
W76-01585 9-04 7C

HALL, F. G.
ERTS-1 Data in Support of the National Program of Inspection of Dams,
W76-02029 9-05 7C

HALL, F. R.
Chloride in Natural Waters of New Hampshire,
W76-02361 9-05 5B

HALL, G. F.
Loess in Ohio in Relation to Several Possible Source Areas: I. Physical and Chemical Properties,
W76-06399 9-13 2J

Loess in Ohio in Relation to Several Possible Source Areas: II. Elemental and Mineralogical Composition,
W76-06400 9-13 2J

HALL, G. W.
The Development of a Center Pivot Wastewater Irrigation Machine,
W76-01565 9-04 5D

HALL, H. C.
Environmental Salinity: Its Failure to Influence Growth of Atlantic Salmon (Salmo Salar) Part,
W76-03045 9-07 5C

HALL, J. A.
Observations on the Performance of Polishing Lagoons at a Large Regional Works,
W76-00268 9-01 5D

HALL, J. B.
Phenology and Productivity of Pistia Stratiotes L. on the Volta Lake, Ghana,
W76-08036 9-15 5C

HALL, K.
The Water Pollution Control Act of 1972, Institutional Assessment, Enforcement, Volume I,
W76-10574 9-20 5G

The Water Pollution Control Act of 1972, Institutional Assessment, Enforcement Volume II,
W76-10575 9-20 5G

HALL, L.
Phosphorus Reduction with Bivalent Iron Sulfate at the Kappala Water Purification Plant, (In Swedish)
W76-12989 9-24 5D

HALL, M. D.
The Design and Operation of an Open-Front, Slotted Floor Beef Confinement Building,
W76-00447 9-01 5D

HALL, M. J.
Conceptual Model Design for Motorway Stormwater Drainage,
W76-01062 9-03 2A

HALL, N. W.
Effective Use of High Water Table Areas for Sanitary Landfill. Vol. II,
W76-05744 9-12 5G

HALL, P. L.
Computer Model Guides Salt Water Well Construction,
W76-00285 9-01 5A

Countermeasures to Control Oil Spills in Western Canada,
W76-09346 9-17 5G

HALL, T. F.
Water Level Management for the Control of Anopheles Quadrimaculatus in the Tennessee Valley,
W76-02447 9-05 5G

HALL, W. A.
Aqueduct Optimization with Intermediate Storage,
W76-09636 9-18 4A

Optimization of Design Capacity of an Aqueduct,
W76-12526 9-23 4A

HALL, W. D.
Aquifer Evaluation Using Depositional Systems: An Example in North-Central Texas,
W76-05554 9-12 2F

Aquifer Evaluation Using Depositional Systems: An Examples in North-Central Texas,
W76-03111 9-07 2F

HALLBERG, R. O.
Vyredox-In Situ Purification of Ground Water,
W76-05553 9-12 5F

LDAL, P.
System for Continuous Measurement of otosynthetic Rate and Dark Respiration at nstant CO2-Level,
76-04586 9-10 5C

LE, K.
astewater Treatment in Small Textile Finish- g Plants a Procedural System. bwasserbehandlung in Kleineren Textil- redlungsbetrieben--Ein Verfahrenssystem),
76-07747 9-15 5D

LER, J. E.
ne Industrial Revenue Bond for Pollution ntrol: One Company's Perspective,
76-09769 9-18 5G

LERMEIER, R. J.
evelopment of a Shallow-Water Wave irection Gage,
76-02399 9-05 2L

LETT, J.
persaturation and Time Dependence of Ice ucleation from the Vapor on Single Crystal bstrates,
76-10695 9-20 3B

LEY, J. L.
ater Treatment Composition Including nthetic Wax,
76-08029 9-15 5F

LLHAGEN, A.
rvey of Present Knowledge and Discussion Input of Petroleum to the Marine Environ- ent in Sweden,
76-05139 9-11 5B

LLIDAY, R. A.
iagara River Acoustic Streamflow Measure- ent System,
76-04165 9-09 7B

etransmission of Water Resources Data Using e ERTS-1 Data Collection System,
76-02032 9-05 7B

LLOCK, D. L.
ffect of Anaerobic Swine Lagoons on roundwater Quality in High Water Table oils,
76-07190 9-14 5B

LLOCK, K. L.
ollutant Movement to Ground Water from wine Waste Lagoons,
76-03973 9-08 5B

LLOPEAU, C.
reliminary Laboratory Research in Experi- ental Brackish Ecosystems,
76-01165 9-03 5C

LLOWELL, J. B.
emoval of Chromium from Plating Rinse ater Using Activated Carbon,
76-01867 9-04 5D

LMANN, M.
urnover and Uptake of Dissolved Phosphate Freshwater: A Study in Lake Kinneret,
76-07430 9-14 5C

LPER, M.
evelopment Document for Effluent Limita- ons Guidelines and New Source Performance tandards for the Petroleum Refining Point ource Category,
76-01238 9-03 5G

HALPERN, D.
Influence of Surface Waves on Subsurface Current Measurements in Shallow Water,
W76-12431 9-23 2L

Observations of the California Undercurrent Off Washington and Vancouver Island,
W76-09584 9-18 2L

HALPERN, R. L.
Water Gate,
W76-02995 9-06 8C

HALSTEAD, R. L.
Chemical and Plant Extractability of Metals and Plant Growth on Soils Amended with Sludge,
W76-12929 9-24 5B

HALTEMAN, J. G.
Water Authority Rate Making,
W76-09717 9-18 6C

HALVERSON,
Controlling Solar Light and Heat in a Forest by Managing Shadow Sources,
W76-12241 9-23 4A

HALVERSON, H. G.
Central Sierra Profiling Snow Gage: A Guide to Fabrication and Operation,
W76-12158 9-23 2C

Development of a Radioactive Isotope Profiling Snow Gage,
W76-12159 9-23 2C

Seasonal Snow Surface Energy Balance in a Forest Opening,
W76-12160 9-23 2C

Shadow Length Tables for Environmental Planning,
W76-12240 9-23 4A

Shadow Length Tables for Latitude 36 Degrees North,
W76-12249 9-23 4A

Shadow Length Tables for Latitude 38 Degrees North,
W76-12247 9-23 4A

Shadow Length Tables for Latitude 40 Degrees North,
W76-12248 9-23 4A

Shadow Length Tables for Latitude 42 Degrees North,
W76-12242 9-23 4A

Shadow Length Tables for Latitude 44 Degrees North,
W76-12244 9-23 4A

Shadow Length Tables for Latitude 46 Degrees North,
W76-12245 9-23 4A

Shadow Length Tables for Latitude 48 Degrees North,
W76-12246 9-23 4A

Shadow Length Tables for Latitude 50 Degrees North,
W76-12243 9-23 4A

HALVORSON, A. D.
Assessing Soil Salinity and Identifying Potential Saline-Seep Areas with Field Soil Resistance Measurements,
W76-00835 9-02 3C

Estimating Water Salinity with Geophysical Earth Resistivity Equipment,
W76-08332 9-16 2K

HALVORSON, H. O.
Installation for Sewage Treatment,
W76-01715 9-04 5D

Installation for Sewage Treatment,
W76-02211 9-05 5D

HALVORSON, W. L.
Productivity and Flowering of Winter Ephemerals in Relation to Sonoran Desert Shrubs,
W76-02526 9-06 2I

HAM, H. H.
Use of Drainage Wells,
W76-01566 9-04 4B

HAMAD, S. N.
Design of Irrigation Runoff Recovery Systems,
W76-01702 9-04 3F

Design of Irrigation Runoff Recovery Systems,
W76-03246 9-07 3F

Energy Inputs to Irrigation,
W76-04566 9-10 3F

HAMANO, T.
Metal Analysis by Model 630-C Hitachi Liquid Chromatograph (630-C-Gata Hitachi Ekitai Kuromatographu Ni Yoru Kinzoku Bunseki),
W76-01060 9-03 5A

HAMBLIN, P. F.
Determination of the Aerodynamic Drag Coefficient from Wind Set-Up,
W76-11437 9-21 2H

Helmholtz Resonance in Harbours of the Great Lakes,
W76-11306 9-21 2H

Short Period Tides in Lake Ontario,
W76-11438 9-21 2H

A Simple Diffusion Model of the Mean Field Distribution of Soluble Materials in the Great Lakes,
W76-01476 9-03 5B

HAMBLIN, R. J. J.
Sulfide Oxidation: Sulfox System of Pollution Control,
W76-04784 9-10 5D

HAMBREY, M. J.
Boudinage in Glacier Ice-Some Examples,
W76-07065 9-14 2C

HAMBRIC, R. N.
Aquatic Plant Control Program for Alligator Weed and Water Hyacinth in Texas,
W76-11147 9-21 5G

HAMBY, R. J.
Heat Effects on a Marine Snail,
W76-02333 9-05 5C

HAMDAN, A. S.
Screening Model For Conjunctive-Use Water Systems,
W76-05268 9-11 4A

HAMDI, H.
A Suitability Index of Drainage Waters for Irrigation Purposes,
W76-02168 9-05 3C

HAMDY, M. K.
Formation of Methyl Mercury by Bacteria,
W76-02812 9-06 5A

HAMEILEC, A. E.
Assessment of Polyelectrolytes for Phosphorus Removal,
W76-10492 9-19 5D

HAMES, H.
Optimization of Groundwater Withdrawals with Regard to Technical and Hydrological Constraints,
W76-12544 9-23 4B

HAMID, K. S.
Dispersion as an Index of Relative Hydraulic Conductivity in Salt-Affected Soils of the Sudan,
W76-01694 9-04 2G

HAMID, M. W. A.
A Suitability Index of Drainage Waters for Irrigation Purposes,
W76-02168 9-05 3C

HAMIELEC, A. E.
A Numerical Investigation of the Efficiency with Which Simple Columnar Ice Crystals Collide with Supercooled Water Drops,
W76-04679 9-10 2B

HAMILTON, C. E.
Organic Contaminants of Water,
W76-09689 9-18 5A

HAMILTON, H. E.
Critical Waste Problems Ahead,
W76-04423 9-09 5E

HAMILTON, J. R.
A Methodology for Evaluating Development-Environmental Conflicts on Wild and Scenic Rivers,
W76-11707 9-22 6G

HAMILTON, K. C.
Rates of Herbicides in Irrigated Cotton,
W76-01698 9-04 3F

HAMILTON, L. S.
Owasco Lake and its Watershed, a Summary Report With Two Appendices and Maps,
W76-06751 9-13 5C

HAMILTON, M.
Empirical Methods of Using Soils as Radiation Dosimeters,
W76-00542 9-02 5A

HAMILTON, R. D.
Acetylene Reduction Assays for Nitrogen Fixation in Freshwaters: A Note of Caution,
W76-06202 9-13 5A

Factors Controlling Rates of Methane Oxidation and the Distribution of the Methane Oxidizers in a Small Stratified Lake,
W76-12750 9-24 5B

Measurement of Adenosine Triphosphate (ATP) in Two Precambrian Shield Lakes of Northwestern Ontario,
W76-04193 9-09 5A

Tertiary Treatment of Wastewater Using Oxidation Ponds,
W76-03138 9-07 5D

HAMILTON, W. L.
Climatological Implications of Microparticle Concentrations in the Ice Core from 'Byrd' Station, Western Antarctica,
W76-07551 9-15 2C

HAMLIN, M. J.
Control of a River System with Two Storage Reservoirs,
W76-06422 9-13 4A

HAMMACK, G. W.
New Log Data Give Better North Sea Well Completions,
W76-03524 9-08 4B

HAMMER, E. R.
A Sociological Assessment of Economic Incentives for Industrial Pollution Abatement,
W76-03269 9-07 5G

HAMMER, M. J.
Eutrophication of Small Reservoirs in Eastern Nebraska,
W76-07258 9-14 5C

HAMMER, U. T.
Osmoregulation in Trichocorixa Verticalis Interiores Sailer (Hemiptera, Corixidae) - An Inhabitant of Saskatchewan Saline Lakes, Canada,
W76-12733 9-24 5C

HAMMERTON, D.
Impact of the Sewage Workers' Strike on the River Clyde,
W76-06281 9-13 5C

HAMMON, G. A.
Capacity of Water-Based Recreation Systems, Part III: Methodology and Findings,
W76-01804 9-04 6B

HAMMOND, J.
Spatial Variability of in Situ Unsaturated Hydraulic Conductivity of Maddock Sandy Loam,
W76-05670 9-12 2G

HAMMOND, J. R.
Professional Requirements of Modern Water Engineers Involved in River Basin Management Utilizing Contemporary Tools,
W76-12537 9-23 4A

HAMMOND, K. R.
Discussion (Of, 'An Assessment of University Interdisciplinary Research: The Wisconsin River and the Lower Fraser River Water Quality Studies,' by A. H. J. Dorcey and I. K. Fox),
W76-00078 9-01 5G

HAMMOND, R. P.
Instrumentation Guide for Seawater Distillation Plants,
W76-07320 9-14 3A

HAMNER, P. P.
Underwater Observations of Gelatinous Zooplankton: Sampling Problems, Feeding Biology, Land Behavior,
W76-09598 9-18 5C

HAMNER, W. M.
Underwater Observations of Gelatinous Zooplankton: Sampling Problems, Feeding Biology, Land Behavior,
W76-09598 9-18 5C

HAMONS, F.
Bacteriological Studies of Wicomico River Soft-Shell Clam (Mya Arenaria) Mortalities,
W76-00873 9-02 5C

HAMPE, G. D.
An Evaluation of Public Hearings on Wat Development Projects in Mississippi,
W76-11337 9-21

HAMPTON, B. B.
Hydrologic Data for Urban Studies in the D las, Texas Metropolitan Area, 1974,
W76-12804 9-24

HAMPTON, E. R.
Map Showing Availability of Hydrologic Da Published by the U. S. Environmental Da Service, and by the U.S. Geological Survey a Cooperating Agencies, Greater Denver Ar Front Range Urban Corridor, Colorado.
W76-12794 9-24

HAMPTON, N. F.
Management of Groundwater Quality Data,
W76-10660 9-20

HAMPTON, Q. L.
Apparatus and Process for Producing an ganic Product from Sewage Sludge,
W76-12600 9-23

Plant for Wastewater Treatment,
W76-02215 9-05

HAMRICK, R. L.
A Modified Monte Carlo Technique to Co pute Thiessen Coefficients,
W76-04688 9-10

HAMZA, H. A.
Method and Apparatus for Centrifuga Separating Finely Divided Solids from Aque Suspensions Thereof,
W76-05543 9-12

HANAK-SCHMAGER, M.
Seston and Periphyton of the River Vistula the Sector From Nowy Bierun to the Wa Stage at Laczany and on the Laczany: Skaw Canal (In Polish),
W76-02513 9-06

HANAMI, Y.
Cyanide Compound Recovery by Imp Method and Reuse of Wastewater (Shogek ni yoru shian-kagobutsu no kaishu to haisui sairiyo),
W76-07753 9-15

HANBURY, M. J.
Treatment of Electroplating Waste Waters b Flotation Technique,
W76-02973 9-06

HANCHEY, J. R.
Public Involvement in the Corps of Engine Planning Process,
W76-06417 9-13

HANCOCK, K. J.
Landsat, A Satellite Surface Water Divin Rod,
W76-02162 9-05

HANCOCK, L. F.
A Practical Monthly Optimum Operati Model,
W76-06436 9-13

HANCOCK, N.
Five Pumps Salvage a Quebec Sewer Job,
W76-10689 9-20

HANDA, B. K.
Occurrence and Distribution of Potassium I in Natural Waters in India,
W76-00897 9-02

ANDL, G.
Territorial Sovereignty and the Problem of Transnational Pollution,
W76-00934 9-02 6E

ANDLER, H.
Modular Container,
W76-10483 9-19 5D

ANDRA, M.
The Effect of Certain Synthetic Macromolecular Substances on the Physico-Chemical Properties of Soil and on the Fertilizer Utilization Coefficient, (In French),
W76-08981 9-17 2G

ANDY, R. L.
Loess Distribution by Variable Winds,
W76-10941 9-20 2J

ANES, W.
Predicting Snowmelt Runoff Using a Deterministic Watershed Model with Stochastic Precipitation Inputs,
W76-07764 9-15 2A

ANES, W. T.
Predicting Snowmelt Runoff Using a Deterministic Watershed Model with Stochastic Precipitation Inputs,
W76-02664 9-06 2A

ANEY, B. J.
Upflow Filter for Potable Water Production,
W76-00222 9-01 5F

ANEY, J. T.
Phosphorus in New York State Rivers: Sources, Sinks, and Detergents,
W76-01170 9-03 5B

ANF, R. W. JR.
Effect of Temperature on Tolerance to Dissolved Gas Supersaturation of Black Bullhead, Ictalurus Melas,
W76-12727 9-24 5C

ANG, Y. D.
Use of Yeast in the Treatment of Sauerkraut Waste,
W76-04733 9-10 5D

Waste Reduction in Table Beet Processing,
W76-04735 9-10 3E

ANISCH, B.
Experiments on Rapid Sand Filtration of Biological Sewage Treatment-Plant Effluents (Untersuchungen Ueber Das Verhalten von Schnell-Sandfiltern Bei der Filtration Eines Biologisch Gereinigten Klaeranlagenablaufs),
W76-10215 9-19 5D

ANKE, S. H.
Estimates of Industrial Waterborne Residuals Control Costs: A Review of Concepts, Methodology, and Empirical Results,
W76-11160 9-21 5G

New Strategies for Water Resource Planning and Management,
W76-01354 9-03 4A

Project Evaluation During Inflation,
W76-02444 9-05 6B

Water Rates: An Assessment of Current Issues,
W76-03439 9-07 5F

HANKS, A. R.
Controlled Food-Chain Transfer of Dieldrin Residues From Phytoplankters to Clams,
W76-00867 9-02 5B

HANKS, H. JR.
Drip Irrigation Method,
W76-03000 9-06 3F

Drip Irrigation System,
W76-03010 9-07 3F

HANKS, K. S.
Sediment Loading, its Effect on a southern Arizona Lake and the Emerging Spring Zooplankton Community,
W76-09073 9-17 2J

Toxicity of Some Chemical Therapeutics to the Commercial Shrimp, Penaeus Californiensis,
W76-08796 9-17 5C

HANKS, R. J.
Model of Soil Salinity Effects on Crop Growth,
W76-04945 9-10 3C

HANN, R. W. JR.
Follow-Up Field Survey of the Oil Pollution from the Tanker 'Metula',
W76-11943 9-22 5C

HANNA, B.
Experimental Crude Oil Spills on a Small Subarctic Lake in the Mackenzie Valley, N.W.T.: Effects on Phytoplankton, Periphyton, and Attached Aquatic Vegetation,
W76-00142 9-01 5C

HANNA, B. M.
Field Studies on the Phytotoxicity of Crude Oil to Subarctic Aquatic Vegetation,
W76-11405 9-21 5C

HANNA, S. B.
Kinetics and Mechanisms of the Oxidative Degradation of Nitrilotriacetic Acid (NTA) in Aqueous Solutions,
W76-08843 9-17 5B

HANNA, S. R.
Meterological Effects of the Mechanical-Draft Cooling Towers of the Oak Ridge Gaseous Diffusion Plant,
W76-04816 9-10 5B

HANNA, W. E.
Geomorphology of a Glaciated First-order Valley in South Central New York,
W76-01469 9-03 2J

Soil-Geomorphic Relationships in a First-Order Valley in Central New York,
W76-01855 9-04 2G

HANNAMAN, M. C.
Irrigation of Leased Farmland with Treated Wastewater,
W76-11667 9-22 5D

HANNAN, P. J.
A Reliable Algal Assay Procedure Based on pH Measurements,
W76-10360 9-19 5A

HANNAY, F.
In Memoriam: Rainbow Bridge National Monument,
W76-01953 9-04 6G

HANNESSON, R.
Fishery Dynamics: A North Atlantic Cod Fishery,
W76-05445 9-11 6C

HANNIGAN, J. T.
Combined Waste Treatment Proves Economical and Feasible,
W76-05787 9-12 5D

HANOR, J. S.
A Nonsteady State Method for Determining Diffusion Coefficients in Porous Media,
W76-04942 9-10 2F

Underground Storage of Treated Water: A Field Test,
W76-01253 9-03 2F

HANSEN, A. R.
Shipboard Oil-In-Water Content Monitor Based on Light Scattering at Ninety Degrees,
W76-04926 9-10 5A

HANSEN, C. A.
An Application of the Storm Water Management Model,
W76-09738 9-18 5D

Biological Treatment of Combined Sewer Overflow at Kenosha, Wisconsin,
W76-00694 9-02 5D

HANSEN, D. J.
Aroclor 1016: Toxicity to and Uptake by Estuarine Animals,
W76-10340 9-19 5C

Effects of Aroclor 1016 on Embryos, Fry, Juveniles, and Adults of Sheephead Minnows (Cyprinodon Variegatus),
W76-02389 9-05 5C

HANSEN, D. V.
Observations of Currents and Temperatures in the Southeast Florida Coastal Zone During 1971-72,
W76-06656 9-13 2L

A Two-Dimensional Numerical Model of Estuarine Circulation: The Effects of Altering Depth and River Discharge,
W76-10948 9-20 2L

HANSEN, E. A.
Validity of Soil-Water Samples Collected With Porous Ceramic Cups,
W76-00024 9-01 5A

HANSEN, E. M.
The Black Hills-Rapid City Flood of June 9-10, 1972: A Description of the Storm and Flood,
W76-02967 9-06 2E

Moisture Source for Three Extreme Local Rainfalls in the Southern Intermountain Region,
W76-03182 9-07 2B

HANSEN, G. K.
Resistance to Water Flow in Soil and Plants, Plant Water Status Stomatal Resistance and Transpiration of Italian Ryegrass, as Influenced by Transpiration Demand and Soil Water Depletion,
W76-07958 9-15 2I

HANSEN, J. E.
Self Propelled Sprinkling Irrigation Apparatus,
W76-08407 9-16 3F

HANSEN, L. J.
Process for the Recovery of Waste Pickle Liquor,
W76-02774 9-06 5D

HANSEN, N-E. O.
Effect of Wind Stress on Stratified Deep Lake,
W76-00551 9-02 2H

HANSEN, P.-D.
Preparation of Algae for the Gas Chromatographic Determination of Lindane, (In German),
W76-07979 9-15 5A

HANSEN, R.
Feedlot Waste Disposal and Water Pollution,
W76-04419 9-09 5B

HANSEN, R. D.
The North-South Split and the Law of the Sea Debate,
W76-07337 9-14 6E

HANSEN, R. P.
A Land Use Decision Methodology for Environmental Control,
W76-00683 9-02 6B

Mineral Development and the Environment: Legal Reforms for the Siting of Major Facilities,
W76-00925 9-02 6E

HANSON, C. H.
A High Capacity Sand Filter for Thermal Power Plant Cooling Water Intakes Part I: Model Studies and Fouling Control Techniques,
W76-08660 9-16 8I

HANSON, C. L.
Model for Predicting Evapotranspiration from Native Rangelands in the Northern Great Plains.
W76-11742 9-22 2D

Sediment Yield from Southwest Idaho Rangeland Watersheds,
W76-01086 9-03 2J

HANSON, E. G.
Predicting Consumptive use with Climatological Data,
W76-10873 9-20 2D

HANSON, R. L.
Relation of the Consumptive Use Coefficient to the Description of Vegetation,
W76-05843 9-12 2D

HANSON, S. D.
Water Resources of the Huron River Basin, Southeastern Michigan,
W76-05429 9-11 7C

HANWAY, J. E. JR.
Counter-Flow Sludge Burner,
W76-00590 9-02 5E

HANWAY, J. J.
Nitrate, Phosphorus, and Sulfate in Subsurface Drainage Water,
W76-01146 9-03 5B

Plant Nutrient Losses From Tile-Outlet Terraces,
W76-00723 9-02 5B

HAO, O.
Rotating Biological Reactors Remove Nutrients, Part I,
W76-03712 9-08 5D

Rotating Biological Reactors Remove Nutrients, Part II,
W76-03713 9-08 5D

HAPPICH, W. F.
Effect of Flocculants on the Sedimentation of Organic Solids in Tannery Unhairing Effluents,
W76-08164 9-16 5D

HAQUE, I.
An Experiment on the Feeding of Fry of Catfish Heteropneustes Fossilis,
W76-08575 9-16 2I

HAQUE, M. K.
An Experiment on the Feeding of Fry of Catfish Heteropneustes Fossilis,
W76-08575 9-16 2I

HARALICK, R. M.
Spectral and Textural Processing of ERTS Imagery,
W76-02067 9-05 7C

HARBAUGH, A. W.
Analog-Model Analysis of Hydrologic Effects of Sewerage in Southeast Nassau and Southwest Suffolk Counties, Long Island, New York,
W76-02146 9-05 5B

HARDEN, D. R.
Graphic and Tabular Summaries of Water and Suspended-Sediment Discharge During Eight Periods of Synoptic Storm Sampling in the Lower Drainage Basin of Redwood Creek, Humboldt County, California,
W76-04398 9-09 7C

Redwood National Park Studies Data Release Number 1: Redwood Creek, Humboldt County, California, September 1, 1973-April 10, 1974,
W76-02144 9-05 7C

HARDIE, M. G.
Water Resources Problems and Solutions Associated with the New Lead Belt of S.E. Missouri,
W76-06948 9-14 5G

HARDING, G. C. H.
Accumulation and Apparent Absence of DDT Metabolism by Marine Copepods, Calanus SPP. in Culture,
W76-03784 9-08 5C

HARDING, T. P.
Predicting Productive Trends Related to Wrench Faults,
W76-10100 9-19 8E

HARDISON, A. P.
Drip Irrigation System and Components Thereof,
W76-02249 9-05 3F

HARDISON, C. H.
Interstation Correlation of Peak-Flow Estimates,
W76-08555 9-16 4A

HARDISTY, M. W.
Dietary Habits and Heavy Metal Concentations in Fish from the Severn Estuary and Bristol Channel,
W76-11721 9-22 5C

HARDY, C. E.
Predicting Effects on Fish of Fire Retardants in Streams,
W76-02519 9-06 5C

HARDY, E. E.
A Land Use and Land Cover Classification System for use with Remote Sensor Data,
W76-11679 9-22 4A

HARDY, M.
Regional Approaches to Law of the Sea: T
European Community,
W76-07334 9-14

HARENBERG, O.
A Very Rapid Liming and Tanning Proc
Without Effluent,
W76-08181 9-16

HARGADINE, G. D.
Results of Infiltration Tests Near Scott C
Western Kansas,
W76-10136 9-19

HARGIS, W. J.
The Virginia Institute of Marine Science, V
ginia's Marine Science, Engineering, Edu
tion, and Advisory Services Program,
W76-13100 9-24

HARGROVE, J. L.
Settlement of Disputes Under the Law
Ocean Use, With Particular Reference to
vironmental Protection,
W76-12005 9-22

HARKER, R.
Treatment and Disposal of Effluent From
Wool Textile Industry,
W76-03095 9-07

HARL, N. E.
Legal Aspects of Livestock Production
Waste Management,
W76-11044 9-20

HARLEMAN, D. R. F.
Heat Disposal in the Water Environment,
W76-01012 9-03

Heat Disposal in Water Environment,
W76-02559 9-06

One-Dimensional Temperature Predictions
Unsteady Flows,
W76-08738 9-16

Stability and Mixing of a Vertical Ro
Buoyant Jet in Shallow Water,
W76-08144 9-16

Submerged Multiport Diffusers for Coo
Water Discharge,
W76-06464 9-13

Temperature Predictions for Offshore Po
Plants,
W76-09960 9-18

HARLEY, B. M.
FLOW2D: A Two-Dimensional Flow Model
Flood Plains and Estuaries,
W76-10454 9-19

Transient Flow Routing in Channel Network
W76-02941 9-06

HARLEY, J. H.
Quality Control in Radiochemical Analysis,
W76-08609 9-16

HARLIN, C. C. JR.
Land Application Research at Robert S. K
Environmental Research Laboratory,
W76-11232 9-21

HARLOW, M.
Environmental Impacts of Saline Seep in M
tana,
W76-00193 9-01

ARMON, B. G.
Nutritive Value of Aerobically Treated Livestock and Municipal Wastes,
W76-03557 9-08 5D

ARMON, R. S.
Regional Hydrochemistry of North American Carbonate Terrains,
W76-04298 9-09 2K

ARMONY, R. C.
Emitter for Irrigation Systems,
W76-02998 9-06 3F

ARMS, H. K.
Water Treatment Process and Apparatus,
W76-09855 9-18 5D

ARMS, L. L.
Agricultural Runoff Pollutes Surface Waters, Part I,
W76-02694 9-06 5B

Agricultural Runoff Pollutes Surface Waters, Part I,
W76-03719 9-08 5A

Bacteriological Quality of Surface Runoff From Agricultural Land, Part II,
W76-02695 9-06 5B

A Case Study of Non-Point Source Pollution in Virginia,
W76-04011 9-09 5B

ARMS, W. R.
Some Effects of Soil Type and Water Regime on Growth of Tupelo Seedlings,
W76-00999 9-02 2I

HARMSEN, L.
A Brief Hydrologic Appraisal of the July 3-4, 1975, Flash Flood in Las Vegas Valley, Nevada.
W76-12806 9-24 4A

A Hydrologic Assessment of the September 14, 1974, Flood in Eldorado Canyon, Nevada.
W76-00663 9-02 2E

HARNACK, R. P.
Selected Cases of Convective Precipitation Caused by the Meteropolitan Area of Washington, D.C.,
W76-02422 9-05 2B

HARO, B.
Storm Drainage 'Filtered' Before Discharge,
W76-08032 9-15 5G

HARPER, L. A.
A Model for Runoff of Pesticides from Small Upland Watersheds,
W76-08356 9-16 5B

HARPER, W. C.
Changes in Storm Hydrographs After Road Building and Clear-Cutting in the Oregon Coast Range,
W76-02937 9-06 4C

HARPER, W. J.
Loading Characteristics Affecting the Performance of a Laboratory Dairy Waste Water Treatment System,
W76-04751 9-10 5D

HARR, R. D.
Changes in Storm Hydrographs After Road Building and Clear-Cutting in the Oregon Coast Range,
W76-02937 9-06 4C

A Multiple-Well, Water-Level Measuring and Recording System,
W76-04961 9-10 4B

HARREL, R. C.
Stream Bottom Organisms as Indicators of Ecological Change: Phase II,
W76-07586 9-15 5C

HARREMOES, P.
The Significance of Pore Diffusion to Filter Denitrification,
W76-11199 9-21 5D

HARRILL, J. R.
Ground-Water Data Near the Northwest Shore of Topaz Lake, Douglas County, Nevada,
W76-05424 9-11 7C

HARRINGTON, D.
Economic Evaluation of the Promulgated Interim Primary Drinking Water Regulations,
W76-12821 9-24 5G

HARRINGTON, J. JR.
The Integrated Multi-Media Pollution Model,
W76-01013 9-03 5G

HARRIS, A. B.
Ground Water in Selected Areas in the Klamath Basin, Oregon,
W76-01590 9-04 2F

HARRIS, A. R.
Sewage Effluent Infiltrates Frozen Forest Soil,
W76-09288 9-17 5B

Validity of Soil-Water Samples Collected With Porous Ceramic Cups,
W76-00024 9-01 5A

HARRIS, D. J.
An Evaluation of Automatic Wastewater Compositors,
W76-10652 9-20 5A

Performance of Automatic Wastewater Compositions,
W76-03698 9-08 5A

HARRIS, F. S. JR.
Atmospheric Aerosols: A Literature Summary of Their Physical Characteristics and Chemical Composition,
W76-12996 9-24 5A

Laser Applications to Atmospheric Sciences - A Bibliography,
W76-08323 9-16 10C

HARRIS, J. E.
Trace Metals in Melbourne Rivers-An Interlaboratory Analysis,
W76-01770 9-04 5A

HARRIS, L.
Thermal Degradation of Drilling Mud Additives,
W76-08901 9-17 8G

HARRIS, L. E.
Analysis of the Polychlorinated Biphenyl Problem, Application of Gas Chromatography-Mass Spectrometry with Computer Controlled Repetitive Data Acquisition from Selected Specific Ions,
W76-07709 9-15 5A

HARRIS, M. D.
Effects of Initial Flooding on Forest Vegetation at Two Oklahoma Lakes,
W76-08831 9-17 4A

HARRIS, R. C.
The Effect of urban Land Use on Nutrient and Suspended-Solids Export from North Florida Watersheds,
W76-10331 9-19 4C

HARRIS, R. F.
Phosphorus Mobility in Lake Ontario Sediments,
W76-11288 9-21 5B

HARRIS, R. P.
Petroleum Compounds in the Marine Food Web: Short-Term Experiments on the Fate of Naphthalene in Calanus,
W76-11181 9-21 5C

HARRIS, R. W.
Water Allocation,
W76-03920 9-08 4A

Water Pollution,
W76-03921 9-08 5G

HARRIS, S. E.
Intermittent Sand Filters for Upgrading Lagoon Effluents,
W76-00257 9-01 5D

Intermittent Sand Filtration to Upgrade Lagoon Effluents--Preliminary Report,
W76-07051 9-14 5D

HARRIS, W. F.
A Theoretical Basis for Ecosystem Analysis with Particular Reference to Element Cycling,
W76-10268 9-19 5C

HARRIS, W. L.
Zero Energy Input Flocculator,
W76-08200 9-16 5F

HARRISON, A. T.
Comparative Photosynthetic and Respiratory Gas Exchange Characteristics of Atriplex Lentiformis (Torr.) Wats. In Coastal and Desert Habitats,
W76-02530 9-06 2D

HARRISON, D. S.
Peach Irrigation in Florida,
W76-10749 9-20 3F

HARRISON, F. L.
Cadmium Concentrations in Rock Scallops in Comparison with some other Species,
W76-12715 9-24 5C

HARRISON, J. E.
Identification of Objectionable Environmental Conditions and Issues Associated with Confined Disposal Areas,
W76-00516 9-02 5B

HARRISON, J. G.
Localization of Damage Incurred During Water Imbibition by Pisum Sativum and Zea Mays Seeds, as Revealed by the Topographic Tetrazolium Test,
W76-06649 9-13 2I

HARRISON, R. M.
Factors Affecting the Extraction and Analysis of Polynuclear Aromatic Hydrocarbons in Water,
W76-09200 9-17 5A

HARRISON, S. S.
Effects of Groundwater Seepage on Stream Regiment,
W76-02629 9-06 2J

HARRISON, W.
Environmental Analysis for Bahamas Supertanker Port,
W76-12222 9-23 5G

Nearshore Currents at Point Beach, Wisconsin (1974-1975),
W76-12758 9-24 7B

HARRISON, W. D.
Some Observations on the Behavior of the Liquid and Gas Phases in Temperate Glacier Ice,
W76-05915 9-12 2C

HARRISON, W. G.
Assay of Nitrate Reductase from Plasmolyzed Marine Phytoplankton,
W76-08943 9-17 5C

Physiological Ecology of Gonyaulax Polyedra, a Red Water Dinoflagellate Off Southern California,
W76-08936 9-17 5C

HARRISS, C.
Mercury Enrichment in Estuarine Plant Detritus,
W76-11724 9-22 5C

HARRISS, R. C.
Differential Sensitivity to PCB by Phytoplankton,
W76-11816 9-22 5C

The Impact of Highway Construction on a North Florida Watershed,
W76-10945 9-20 5B

Observations on the Association Between Mercury and Organic Matter Dissolved in Natural Waters,
W76-01757 9-04 5A

HARROLD, L. L.
No-Tillage System Reduces Erosion from Continuous Corn Watersheds,
W76-01078 9-03 2J

HARROLD, T. W.
The Measurement of Heavy Rainfall Over Small Catchments Using Radar,
W76-00300 9-01 2B

HARSHBARGER, J. W.
Groundwater Resources: Evaluation and Exploitation,
W76-00812 9-02 4B

HARSHBARGER, T. J.
Research in Aquatic Habitats at the Southeastern Station,
W76-02273 9-05 4C

HART, B. A.
The Effects of Cadmium on Freshwater Phytoplankton,
W76-12152 9-23 5C

HART, D. L. JR.
Geohydrology of the Oklahoma Panhandle, Beaver, Cimarron, and Texas Counties,
W76-13081 9-24 4B

HART, E. D.
Outlet Works for Beltzville Dam, Pohopoco Creek, Pennsylvania; Prototype Tests,
W76-07461 9-15 8B

HART, F. L.
Modifications Improve Chlorine Contact Chamber Performance, Part I,
W76-03231 9-07 5F

Modifications Improve Chlorine Contact Chamber Performance, Part II,
W76-07056 9-14 5D

HART, G. E.
Effects of Lodgepole Pine Logging and Residue Disposal on Subsurface Water Chemistry,
W76-02279 9-05 5B

HART, G. K.
Commercial Membrane Desalting Plants: Data and Analysis,
W76-08370 9-16 3A

HART, J. A.
Waste Water Recycled For Use in Refinery Cooling Towers,
W76-08270 9-16 5D

HART, J. C.
The Nature and Extent of Rights in Water in North Dakota,
W76-06378 9-13 6E

HART, J. E.
Baroclinic Instability Over A Slope. P%AQT I: Linear Theory,
W76-02917 9-06 2L

Baroclinic Instability Over A Slope. Part II: Finite-Amplitude Theory,
W76-02918 9-06 2L

HART, J. S.
Uptake of Inorganic Mercury by Bed Sediments,
W76-00725 9-02 5B

HART, S. A.
A Planning Study on Dairy Wastes Management,
W76-07175 9-14 5D

HART, T. S.
Residential Development A Look at the Regulatory Controls of Florida's Water Resources,
W76-12057 9-22 6E

HART, W. E.
Irrigation Reuse Systems--A Proposed New ASAE Engineering Practice,
W76-13016 9-24 3C

HARTE, J.
Stability Indicators for Nutrient Cycles in Ecosystems,
W76-04838 9-10 5C

HARTER, R. D.
Role of Agriculture in the Quality of the New Hampshire Environment,
W76-12337 9-23 5G

HARTINGER, L.
Complex Chemistry in Waste Water Technology (Komplexchemie in der Abwassertechnik),
W76-02574 9-06 5D

The Precipitation of Lead From Waste Waters (Die Ausfaellung Von Blei Aus Abwaessern),
W76-02349 9-05 5D

HARTKE, E. J.
Sedimentation in Lake Lemon, Monroe County, Indiana,
W76-01314 9-03 2J

HARTLAND-ROWE, R.
Effects of Sewage Effluent on a Swampland Stream,
W76-04919 9-10 5C

HARTLEY, H. O.
An Evaluation of Weather Modification Ac ties in the Texas High Plains,
W76-03104 9-07

HARTMAN, C.
They're Getting the Jump on Pollution C trols,
W76-01036 9-03

HARTMAN, R. T.
Seasonal and Annual Variations in the Qua ties of Nitrogen, Potassium, Phosphorus, M nesium, Calcium, and Manganese Reaching Forest Floor as Mast in Pennsylvania and V mont Forests,
W76-10306 9-19

HARTMAN, W. J.
Municipal Wastewater Odor Still a Proble Part 1,
W76-05773 9-12

Municipal Wastewater Odor Still a Probl Part 2,
W76-09044 9-17

HARTMAN, W. L.
Environmental Factors Affecting the Stren of Walleye (Stizostedion Vitreum Vitre Year-Classes in Western Lake Erie, 1960-70,
W76-03653 9-08

HARTMANN, H.
Immersion Filter,
W76-13146 9-24

HARTMANN, R.
Apparatus for the Separation of Difficu Miscible or Non-Miscible Liquids,
W76-03660 9-08

Comparative Study in Measuring Fluid Surf Tension and Fluid Content with the Aid Electrical Resistance Elements 'In Situ' and the Laboratory, (In Flemish),
W76-09923 9-18

The Moisture Characteristics of Pleistoce Deposits in the Flemish Valley, (In Dutch),
W76-04699 9-10

The Relationship Between Heat Conductan and the Moisture Content of the Soil, Dutch),
W76-08769 9-17

HARTT, J. P.
Quality and Variation of Pollutant Loads Urban Stormwater Runoff,
W76-05576 9-12

HARTUNG, R.
A Continuous Flow Bioassay Method to Eva ate the Effects of Outboard Motor Exhau and Selected Aromatic Toxicants on Fish,
W76-08780 9-17

HARTWIG, E. O.
Nutrient Cycling Between the Water Colu and a Marine Sediment. I. Organic Carbon,
W76-08957 9-17

HARTWIG, H.
Aquatic Vegetation Harvesting,
W76-02647 9-06

HARTZELL, C. L.
WSSI Final Report for the Colorado Riv Basin Pilot Project,
W76-10818 9-20

ARUNA, N. M.
Oxidation of Acetone with Ozone in Aqueous Media in the Treatment of Acetone-Containing Waste Water (Okisplienye atsietona ozonom v vodnykr skriedahr prumienitielno k obiezvrie-jivaniyou atsietonsodierjachtihr),
W76-05277 9-11 5D

ARVEY, E. J.
Water Resources of West-Central Missouri,
W76-03401 9-07 7C

ARVEY, G. R.
Reduction of Field Populations of Fiddler Crabs by Uptake of Chlorinated Hydrocarbons,
W76-11588 9-21 5C

ARVEY, H. H.
Fish Populations in a Large Group of Acid-Stressed Lakes,
W76-08790 9-17 5C

Long-Term Acidification of a Lake and Resulting Effects on Fishes,
W76-11178 9-21 5C

Selective Fish Mortality Resulting from Low Winter Oxygen,
W76-08788 9-17 5C

ARVEY, R. S.
Bacterial Populations of Aquatic Systems Receiving Different Types of Stress,
W76-11704 9-22 5C

ARVIN, J.
Effects of Temperature and Salinity on Growth and Uptake of 65ZN and 137CS for Six Marine Algae,
W76-12238 9-23 5C

ASCHKE, D.
Meteorological Influences of Atmospheric Cooling Systems as Projected in Switzerland,
W76-04814 9-10 5B

ASCHKE, H.
Process for the Precipitation of Heavy Metal Ion-Polycarboxylate Complexes,
W76-11452 9-21 5D

ASEMAN, W. D.
Implementation of a Large Scale Water Quality Data Management System,
W76-10588 9-20 5A

Implementation of a Large Scale Water Quality Data Management System,
W76-12521 9-23 5G

ASEWAGA, S.
Performance Characteristics of 'Bulk Effect' Humidity Sensors,
W76-00886 9-02 7B

ASFURTHER, V. R.
Model Sand Filters for the Removal of Colloidal Manganese Oxides Using Selected Cations as Filter Aids,
W76-00111 9-01 5F

Soil Temperature Modeling Using Air Temperature as a Driving Mechanism,
W76-01079 9-03 7B

ASHIGUCHI, Y.
Studies of Paragonimus Ohirai Miyazaki: 1939 and P. Sadoensis Miyazaki Et Al. 1968 Found in Noto Peninsula, Ishikawa Prefecture: Japan, (In Japanese),
W76-07991 9-15 5C

HASHIMOTO, H.
Instruments for Water and Sewage Treatment Plants (Jogesuido keiso kiki),
W76-06347 9-13 7B

HASHIZUME, K.
Status of Uptake of Mercury by the Fresh Water Diatom, Synedra Ulna,
W76-01913 9-04 5C

HASHMI, A. K.
Effect of Water Quality and Management Practices on Some Chemical Properties of Soils,
W76-09926 9-18 3C

HASLER, A. D.
Electrophysiological Studies of Morpholine-Imprinted Coho Salmon (Oncorhynchus Kisutch) and Rainbow Trout (Salmo Gairdneri),
W76-08438 9-16 5C

Experimental Confirmation of the Olfactory Hypothesis with Homing, Artificially Imprinted Coho Salmon (Oncorhynchus Kisutch),
W76-08439 9-16 5C

HASSAN, H. A.
Hydrogeological Conditions of Al-Hamad Area, Iraq,
W76-09068 9-17 2F

HASSELMANN, K.
A Parametric Wave Prediction Model,
W76-08337 9-16 2L

HASSETT, A. F.
Food Processing Wastewater: Municipal Discharge or Separate Treatment,
W76-04740 9-10 5D

HASSETT, J.
Model Ecosystem Studies of Lead and Cadmium and of Urban Sewage Sludge Containing These Elements,
W76-07013 9-14 5C

HASTEIN, T.
An Acute Septicaemic Disease of Brown Trout (Salmo Trutta) and Atlantic Salmon (Salmo Salar) Caused by a Pasteurella-Like Organism,
W76-12332 9-23 5C

HATADA, H.
Electric Equipment for Mukogawa Sewage Treatment Plant, Hyogo Prefecture (Hyogoken mukogawa shorijo no denki setsubi),
W76-09000 9-17 5D

HATANO, R.
Liquid Waste Treatment Method,
W76-04056 9-09 5D

HATCH, A. E.
Removal of Heavy Metals from Aqueous Solutions,
W76-05309 9-11 5D

HATCH, D. J.
The Estimation of Local Rainfall by Sample Gauging,
W76-08348 9-16 2B

HATCHER, R. F.
Laboratory Comparisons of Four Surface Microlayer Samplers,
W76-12397 9-23 2K

Microbiological and Chemical Enrichment of Freshwater-Surface Microlayers Relative to the Bulk-Subsurface Water,
W76-06124 9-12 5C

HATFIELD, W. D.
Candy Waste Treatment,
W76-07536 9-15 5D

HATHAWAY, S. W.
Improving the Fuel Value of Sewage Sludge,
W76-10234 9-19 5E

Thickening Characteristics of Aluminum and Iron Primary Sewage Sludges,
W76-07243 9-14 5E

HATHORN JR, S.
Costs are Soaring: Irrigating from the Underground,
W76-06586 9-13 3F

The Economics of Converting Natural Gas-Powered Irrigation Pumps to Alternate Energy Sources in Southeastern Arizona,
W76-06588 9-13 3F

HATTERSLEY-SMITH, G.
The Regime of the Ward Hunt Ice Shelf and of the Ice in the Mouth of Nansen Sound, Ellesmere Island,
W76-01244 9-03 2C

HATTORI, S.
Method of Estimating Maximum Water-Holding Capacity in Shallow Soil in a Watershed by Portable Seismic Prospecting Equipment,
W76-03063 9-07 2G

HATTRUP, A. R.
Acrolein Residues in Irrigation Water and Effects on Rainbow Trout,
W76-06563 9-13 5C

HATVA, T.
Examination and Removal of Iron in Groundwater,
W76-05571 9-12 5B

HAUCK, G.
Standardization of Methods for the Determination of Traces of Some Volatile Chlorinated Aliphatic Hydrocarbons in Air and Water by Gas Chromatography,
W76-09287 9-17 5A

HAUCK, R. A.
Report on Methods of Chrome Recovery and Reuse from Spent Chrome Tan Liquor,
W76-08174 9-16 5D

HAUG, A.
Uptake of Zinc and Strontium by Brown Algae,
W76-05473 9-11 5C

HAUG, L. A.
Process for Treating Decomposable Organic Waste Materials,
W76-12601 9-23 5D

HAUGEN, R. K.
Applications of ERTS-1 Imagery to Terrestrial and Marine Environmental Analyses in Alaska,
W76-02049 9-05 7B

Arctic and Subarctic Environmental Analyses Utilizing ERTS-1 Imagery,
W76-08510 9-16 2C

HAUKHMAN, Z. S.
Phytoplankton in Northern Donetsk Ponds for Additional Treatment, (In Ukranian),
W76-08577 9-16 5C

HAUMANN, J.
Developments in Underwater Radiotelemetry and Preliminary Fish Tracking in Thermal Plumes,
W76-05893 9-12 5C

HAUPT, H. F.
Clearcutting and Burning Slash Alter Quality of Stream Water in Northern Idaho,
W76-02522 9-06 4A

HAUSBURG, D. E.
Reverse Osmosis Pilot Plant Studies for the Purification and Reuse of Effluent from a Sanitary Waste Treatment Plant,
W76-11267 9-21 5D

HAUSER, V. L.
Design Runoff Volume from Feedlots in the Southwestern Great Plains,
W76-07195 9-14 5B

HAUSHILD, W. L.
Distribution of Radionuclides in the Columbia River Streambed, Hanford Reservation to Longview, Washington,
W76-00664 9-02 5B

A Numerical Model of Material Transport in Salt-Wedge Estuaries, Part II. Model Computation of Salinity and Salt-Wedge Dissolved Oxygen in the Duwamish River Estuary, King County, Washington,
W76-02482 9-05 2L

Water Quality Model of a Salt-Wedge Estuary,
W76-13063 9-24 5B

HAUTALA, E.
Removing Heavy Metal Ions from Water,
W76-04610 9-10 5D

Removing Heavy Metal Ions from Water,
W76-08401 9-16 5D

HAVE, M. R.
Some Limnological Aspects of 20 Selected Lakes in Eagan and Apple Valley, Minnesota,
W76-02966 9-06 2H

HAVEMAN, R. H.
The Concept of Benefits in Cost-Benefit Analysis: With Emphasis on Water Pollution Control Activities,
W76-11154 9-21 5G

HAVEMEISTER, G.
Qualitative and Quantitative Salmonella Investigations and their Hygienic Valuation in Connection with E. Coli Titre, Demonstrated with Examples from the Coastal Waters of Kiel Bight (Western Baltic Sea), (In German),
W76-13140 9-24 5A

HAVEN, K. F.
A Methodology for Impact Assessment in the Estuarine/Marine Environment,
W76-06910 9-14 6G

HAVENS, J. S.
Ground-Water Records for Northeastern Oklahoma: Part 1--Records of Wells, Test-Holes, and Springs,
W76-11412 9-21 7C

HAVERINEN, A.
Water Pollution Control in the Scandinavian Countries,
W76-12473 9-23 5D

HAWES, F. B.
Environmental Effects of the Heated Discharges From Bradwell Nuclear Power Station, and of the Cooling Systems of Other Stations,
W76-08873 9-17 5C

HAWKES, C. L.
Estimating Dry Weight of Live, Unanesthetized Fish by Photography,
W76-05615 9-12 5A

HAWKINS, R. H.
The Importance of Accurate Curve Numbers in the Estimation of Storm Runoff,
W76-01305 9-03 2A

Surface Runoff and its Effect on Diffuse Salt Production From Mancos Shale Members,
W76-06583 9-13 2G

HAWKINSON, C. F.
Specific Conductance Identifies Perched and Ground Water Lakes,
W76-07023 9-14 2H

HAWKS, P. H.
Deposition Rates in Valleys Determined Using Fallout Cesium-137,
W76-00547 9-02 2J

HAWS, F. W.
A Study of Alternative Methods to Modernize Water Institutions and Eliminate Problems of Multiple Jurisdiction and Conflicting Objectives,
W76-05015 9-11 6E

HAWTHORNE, N. S.
Reclamation of Wood-Chip Carrier Water,
W76-07206 9-14 5D

HAWTHORNE, R. G.
The Effect of Capillary Pressure in a Multilayer Model of Porous Media,
W76-04678 9-10 2F

HAY, G. A.
A General Solution for Linear Decision Rules: An Optimal Dynamic Strategy Applicable under Uncertainty,
W76-04543 9-10 6A

HAY, J.
Salt Marshes-Ecosystems in Danger,
W76-12016 9-22 5G

HAY, W. C.
Pilot Plant Experience in the Treatment of Industrial and Municipal Waste-Water by Means of Radiation-Induced Oxidation,
W76-09545 9-18 5D

HAYAKAWA, K.
Treatment of Waste Water by Immobilized Activated Sludge (Koteika kassei oden ni yoru haisui shori),
W76-06981 9-14 5D

HAYAKAWA, N.
Industrial Research Institute Studying Pollution Problems of Seto Inland Sea,
W76-10031 9-19 5B

Multi-Phased Model Study of the Seto Inland Sea,
W76-10430 9-19 2L

HAYASHI, T.
Instruments for Water and Sewage Treatment Plants (Jogesuido keiso kiki),
W76-06347 9-13 7B

HAYDEN, B. P.
Storm Wave Climates at Cape Hatteras, No Carolina: Recent Secular Variations,
W76-04101 9-09

HAYDEN, C. W.
Mechanical Snake River Undisturbed Soil C Sampler,
W76-01272 9-03

HAYDEN, M. L.
Identification and Treatment of Dispers Clay Soils,
W76-06611 9-13

HAYDT, W.
The Extension of the Sewage-Treatment Pla of Stuttgart (Der Ausbau Der Stuttgarter K werke).
W76-11210 9-21

HAYES, C. H.
Oxygenation Equipment--Aerators and P Oxygen Systems,
W76-03198 9-07

HAYES, D. W.
Plutonium in Atlantic Coastal Estuaries in Southeastern United States of America,
W76-08600 9-16

Pollutant Transport in Natural Streams,
W76-08329 9-16

HAYES, E. R.
Kraft Effluent Treatment by Flotation,
W76-08463 9-16

HAYES, J. M.
Isotopic and Quantitative Analysis of the Ma Carbon Fractions in Natural Water Samples,
W76-04757 9-10

HAYES, J. R.
Lawn Sprinkler,
W76-04599 9-10

Pop-Up Sprinkler with Multiple-Purpose O Piece Seal,
W76-04268 9-09

HAYES, J. V.
Aerosol Production from Land Application Wastewater by Agricultural Irrigation Equ ment,
W76-10625 9-20

HAYES, M. O.
Coastal Processes and Sedimentation on New England Coast,
W76-01498 9-03

HAYES, O. H.
New Techniques in Vegetation Maintenance Military Reservations,
W76-11149 9-21

HAYES, R. B. J.
Operations Manual Anaerobic Slud Digestion,
W76-12700 9-24

HAYGOOD, W.
More Water: One City's Plan,
W76-13097 9-24

HAYMAN, J.
Assessing Physical Potential for Deep Dispo of Industrial Wastes by Wells in the Southea ern United States,
W76-03840 9-08

AYNES, D. C.
Water Recycling in the Pulp and Paper Industry,
W76-04222 9-09 5D

AYNES, H. H.
Durability of Concrete in Seawater,
W76-07218 9-14 8F

AYNES, K. E.
Environmental Quality and Inflation: A Regional Perspective on the Cost-Push Impact of the 1972 Pure Water Legislation,
W76-08151 9-16 5G

AYS, G. E.
Low-Temperature Purification of Fluids,
W76-02827 9-06 5D

AYS, H.
Plastic Particles Found in Tern Pellets, on Coastal Beaches and at Factory Sites,
W76-11720 9-22 5B

AYSLIP, N. C.
Water Repellent Soil Mulch for Reducing Fertilizer Nutrient Leaching: II. Variables Governing the Effectiveness of a Siliconate Spray,
W76-00719 9-02 3C

AYWARD, D. W.
Control of Liquid Effluents from Chemical/Petrochemical Plants,
W76-07507 9-15 5D

AYWARD, M. J.
Limited Arsenic Dispersion in Sea Water, Sediments, and Biota Near a Continuous Source,
W76-01262 9-03 5C

AZELWORTH, J. B.
New York Bight Project, Water Column Sampling Cruises No 1-5 of the NOAA Ship FERREL, August-November 1973,
W76-03187 9-07 7C

AZZARD, N. D.
Metallic Recovery System,
W76-08493 9-16 5D

EADRICK, R. T.
Fluid Recovery Apparatus,
W76-02778 9-06 5G

EADY, E. O.
Models of Land and Water Allocation to Improve Environment and Water Quality Through Soil Loss Controls,
W76-03164 9-07 5G

EALEY, F. P.
Effect of Phosphorus Deficiency on Two Algae Growing in Chemostats,
W76-05465 9-11 5C

Physiological Changes During the Course of Blooms of Aphanizomenon Flos-Aquae,
W76-13114 9-24 5C

EALY, H. G.
Potentiometric Surface and Areas of Artesian Flow of the Floridian Aquifer in Florida, May 1974,
W76-04405 9-09 7C

EALY, T. V.
The Effect of Polyacrylamide on the Settling of Thames Mud,
W76-09243 9-17 2J

HEANEY, J. P.
Urban Stormwater Management Modeling and Decision-Making,
W76-00695 9-02 5D

Urban Stormwater Management Modeling and Decision-Making,
W76-11599 9-21 5D

HEAPS, D. M.
Canadian Water Resources Information: A Network Approach,
W76-05952 9-12 10D

HEARNE, G. A.
The Effects of Ground-Water Development on the Water Supply in the Post Headquarters Area, White Sands Missile Range, New Mexico,
W76-09137 9-17 5B

HEARST, P. J.
The Fate of Spilled Navy Distillate Fuel,
W76-00323 9-01 5A

HEATH, A. G.
Body Temperature Change of Bluegill Sunfish Subjected to Thermal Shock,
W76-00865 9-02 5C

The Effects of Temperature Upon the Toxicity of Chemicals to Aquatic Organisms,
W76-03413 9-07 5C

Research on the Marine Food Chain.
W76-08935 9-17 5C

Temperature Influence on Chemical Toxicity to Aquatic Organisms,
W76-08934 9-17 5C

HEATH, R. C.
Design of Ground Water Level Observation-Well Programs,
W76-05451 9-11 4B

HEATH, R. D.
Biodegradation of Polynuclear Aromatic Hydrocarbon Pollutants by Soil and Water Microorganisms,
W76-08752 9-17 5B

HEBAUS, G. C.
A Laboratory Evaluation of Trash Racks for Drop Inlets,
W76-12189 9-23 8B

HEBEL, R. N. JR.
Underwater Wall Structure,
W76-05523 9-12 8A

HEBERLE, R. A.
Water-Soluble Cationic Polymeric Materials and their Use,
W76-10964 9-20 5D

HEBERLEIN, T. A.
Methodological Strategies for Evaluating the Effect of Water Resources on Social Well-Being and Quality of Life,
W76-05362 9-11 6A

HEBERLING, G.
Study of the Relationship Between Efficacy of Purification and Construction and Operating Costs of Purification Plants (Untersuchung Ueber Die Beziehung Zwischen Reningungsgrad und Bau und Betriebskosten von Kaleranlagen),
W76-01448 9-03 5D

HEBERT, P. V.
A Guide to the Selection of Cost-Effective Wastewater Treatment Systems,
W76-09772 9-18 5D

HEBERT, V.
Pollution Monitoring Doesn't Have to be Costly,
W76-10029 9-19 5A

HEBLE, L. R.
Combined Treatment of Domestic and NSSC Mill Effluents,
W76-03999 9-08 5D

HECHT, L. G.
The Cherry Creek-Casselman River Environmental Improvement Plan,
W76-08384 9-16 5G

HECHT, N. L.
Characterization and Utilization of Municipal and Utility Sludges and Ashes, Volume I-Summary,
W76-00687 9-02 5E

Characterization and Utilization of Municipal and Utility Sludges and Ashes. Volume II - Municipal Sludges,
W76-00688 9-02 5E

Characterization and Utilization of Municipal and Utility Sludges and Ashes, Volume III - Utility Coal Ash,
W76-00689 9-02 5E

Characterization and Utilization of Municipal and Utility Sludges and Ashes. Volume IV - Municipal Incinerator Residues,
W76-00690 9-02 5E

HECK, W. W.
Effects of Sulfur Dioxide and/or Ozone on Several Oat Varieties, 1975 Annual Report,
W76-11190 9-21 5C

HECKARD, J. M.
Environmental Studies for Major Offshore Developments,
W76-09336 9-17 5G

HECKER, W.
In Regard to the Question of the Determination of Heavy Metals in River Waters with the Aid of Radionuclide X-Ray Fluoresence Analysis, (In German),
W76-06619 9-13 5A

HECKROTH, C. W.
PL92-500: Mid-Course Correction Grants Options; Next Move up to Congress,
W76-10106 9-19 5G

Safe Drinking Water Act, Act I Scene I of Here We Go Again,
W76-01788 9-04 5G

HECKY, R. E.
The Phytoplankton and Primary Productivity of Southern Indian Lake (Manitoba), A High Latitude, Riverine Lake,
W76-06204 9-13 5C

HECOCK, RICHARD D.
Land Use Changes and Reservoir Development: An Application of Land Use Information Systems,
W76-09905 9-18 4A

HEDBERG, H. D.
Ocean Boundaries and Petroleum Resources,
W76-10596 9-20 6E

HEDGES, A. M.
Phosphorus Loss by Stream Transport from a Rural Watershed: Quantities, Processes, and Sources,
W76-12435 9-23 5B

HEDGES, L. S.
Geology and Water Resources of Charles Mix and Douglas Counties, South Dakota, Part I: Geology,
W76-05923 9-12 4A

HEDGPETH, J.
Method for Removing Both Organic Matter and Bacteria from a Body of Water,
W76-05031 9-11 5F

HEDLEY, G.
Quality of Water Discharged from an Urban Motorway,
W76-04104 9-09 5B

HEDLUND, J. D.
Meeting Future Water Requirements by Water Conservation,
W76-13013 9-24 3F

HEDMAN, K.
The U.S. Position on the Breadth of the Territorial Sea: National Security and Beyond,
W76-03621 9-08 6E

HEDSTROM, W. E.
Comparison of Methods for Estimating Potential Evapotranspiration in the North Platte Basin of Wyoming,
W76-11115 9-21 2D

Evapotranspiration by Phreatophytes in the North Platte Basin of Wyoming,
W76-00673 9-02 2D

HEEDE, B. H.
Stages of Development of Gullies in the West,
W76-02727 9-06 2J

Watershed Indicators of Landform Development,
W76-02739 9-06 4D

HEERMANN, D. F.
Controlling Center Pivot Sprinklers for Experimental Water Application,
W76-01080 9-03 7B

Hydraulic Properties of a Porous Medium: Measurement and Empirical Representation,
W76-09255 9-17 2G

Wheat Yield Models with Limited Soil Water,
W76-04559 9-10 3F

HEERTJES, P. M.
Anaerobic Treatment of Dilute Waste Waters,
W76-09673 9-18 5D

HEESEN, T. C.
Polychlorinated Biphenyls Off Southern California,
W76-10647 9-20 5C

HEFEZ, E.
Forecasting Water Levels in Aquifers by Numerical and Semihybrid Methods,
W76-05686 9-12 2F

Identifying the Parameters of an Aquifer Cell Model,
W76-04555 9-10 2F

HEFFNER, R.
Entrainment Studies on Hudson River Organisms,
W76-08633 9-16 5C

HEGEMANN, W.
Development in the Application of Oxygen in the Activated-Sludge Process in the Federal Republic of Germany, (III).
W76-12670 9-23 5D

HEID, A. S.
R and D at EPA: The Criticism Continues,
W76-04625 9-10 6E

HEIDEMANN, E.
A Very Rapid Liming and Tanning Process Without Effluent,
W76-08181 9-16 3E

HEIDER, F. M.
Monograph for the Effectiveness and Cost of Water Treatment Processes for the Removal of Specific Contaminats, Volume II, KWIK Index,
W76-06350 9-13 5F

Monograph of the Effectiveness and Cost of Water Treatment Processes for Removal of Specific Contaminants. Vol. 1. Technical Manual,
W76-09227 9-17 5F

HEIDINGER, ROY C.
Vulnerability of Channel Catfish to Largemouth Bass Predation,
W76-04401 9-09 2I

HEIDMAN, J. A.
Carbon, Nitrogen, and Phosphorus Removal in Staged Nitrification-Denitrification Treatment,
W76-01865 9-04 5D

Single Stage Nitrification-Denitrification,
W76-01866 9-04 5D

Solid Wastes and Water Quality, (Literature Review),
W76-12933 9-24 5E

HEIDRICH, A.
Effluent Water Treatment,
W76-00849 9-02 5D

HEIL, R. D.
The Impact of Molybdenum-Enriched Irrigation Water on Agricultural Soils Near Brighton, Colorado,
W76-08675 9-16 5B

HEILMAN, J. H.
Effects of Management Practices on Water Quality and Quantity: Newark, New Jersey, Municipal Watersheds,
W76-09465 9-18 4D

HEILMAN, J. L.
Canopy Temperature Measurement of Sorghum and Millet with Leaf Thermocouple and Infrared Thermometer Techniques,
W76-08590 9-16 2D

An Evaluation of a Resistance Form of the Energy Balance to Estimate Evapotranspiration,
W76-08587 9-16 2D

Thermal Scanner Measurements of Crop Temperatures to Estimate Evapotranspiration,
W76-08591 9-16 2D

HEILMAN, M. D.
Predicting Nitrogen Fertilizer Requirements After Land Leveling,
W76-00155 9-01 3F

HEIMBACH, J. A. JR.
Field Observations of the Persistence of Ag NH4I-Acetone Ice Nuclei in Daylight,
W76-05677 9-12 3

HEINEMANN, H. G.
Controlling Reservoir Trap Efficiency,
W76-06682 9-13 8

Soil and Water Conservation with Weste Iowa Tillage Systems,
W76-08805 9-17 4

HEINEMANN, J.
Hydrocarbons in Blue Mussels from the Ki Bight,
W76-10408 9-19 5

HEINLE, D. R.
An Alternate Grazing Hypothesis for th Patuxent Estuary,
W76-12396 9-23 2

Zooplankton Studies at Morgantown,
W76-08640 9-16 5

HEINONEN, J.
The Reliability of Mercury Analysis in E vironmental Materials,
W76-06007 9-12 5

HEINRICH, H.
Determination of the Biomass and Detritu Content from Natural Phytoplankton Scoo Samples, (In German),
W76-10864 9-20 5

HEINS, C. F.
Applications of Aerospace Technology in th Public Interest: Pollution Measurement,
W76-06710 9-13 5

Monitoring the Environment,
W76-00361 9-01 5

Spectroscopic Instruments, Satellites and Com puters: New Directions for Monitoring the E vironment,
W76-00315 9-01 7

HEINSOHN, G. E.
Effects of a Tropical Cyclone on Littoral an Sub-Littoral Biotic Communities and on Population of Dugongs (Dugong Dugo (Muller)),
W76-06131 9-12 2

HEINZMAN, J. W.
Anti-Run Ahead System for Traveling Hos Pull Sprinklers,
W76-06465 9-13 3

HEISEY, W. A.
Treatment of Wool Scouring Wastes,
W76-01728 9-04 5

HEIZER, R. E.
Tioga River Mine Drainage Abatement Project
W76-12874 9-24 5

HEJTMANICK, E.
Acute Efects of Cadmium on Ictalurus Punc tatus (Catfish),
W76-12331 9-23 5

HEKIMIAN, E. C.
Highway-Wildlife Relationships Volume 2. A Annotated Bibliography,
W76-10004 9-19 4

HELAN, J.
Production Conditions in Trout Brooks o Beskid Mountains: Results of Research Carrie

out Within the Framework of the I.B.P. in the Years 1966 to 1971,
W76-06241 9-13 2E

ELD, J. W.
A Limnological Study of Spiritwood Lake, N. D., With Speçial Emphasis on Its Water Quality, Seasonal Cycles of Chemical Nutrients Phytoplankton, Zooplankton and Primary Production, Part II: Causes and Control of Algal Blooms in Spiritwood Lake, North Dakota,
W76-12214 9-23 5C

ELER, J-J.
Minimization of Core Required in Routing Through a Channel Newtwork,
W76-10243 9-19 2E

ELFGOTT, T. B.
Chemical Analysis and Process Classification of Constituents of Effluents (Organic Nitrogen in Activated Carbon Effluents),
W76-04387 9-09 5A

Inland Wetlands: Technical Definitions Directed Toward Emerging Policy Alternatives,
W76-04389 9-09 6B

ELFRICH, P.
An Assessment of the Expected Impact of a Dredging Project Proposed for Pala Lagoon, American Samoa,
W76-06654 9-13 6G

ELGE, K.
Wood Fiber Boards: Raw Materials, Defibrating Conditions, Waste Water (Trefiberplater rastoff – defibreringsbetingelser – avlopsvann),
W76-12476 9-23 5B

ELGESEN, J. O.
Water Resources of the Lake of the Woods Watershed, North-Central Minnesota,
W76-07115 9-14 7C

Water Resources of the Mississippi and Sauk Rivers Watershed, Central Minnesota,
W76-05428 9-11 7C

ELGORSKY, J.
Purification of Waste Water Containing Phthalic Esters,
W76-05982 9-12 5D

ELKE, R. C.
Microwave Sewage System With Distillation Means,
W76-00800 9-02 5D

ELLDEN, U.
Water Quality Studies and Land-Use Mapping Using ERTS-1 Data,
W76-01792 9-04 5A

ELLEBUST, J.
The Toxicity of Crude Oil and Its Components to Freshwater Algae,
W76-09321 9-17 5C

ELLEBUST, J. A.
The Effects of Aqueous Extracts of Crude Oil and Naphthalene on the Physiology and Morphology of a Freshwater Green Alga,
W76-11404 9-21 5C

Experimental Crude Oil Spills on a Small Subarctic Lake in the Mackenzie Valley, N.W.T.: Effects on Phytoplankton, Periphyton, and Attached Aquatic Vegetation,
W76-00142 9-01 5C

Field Studies on the Phytotoxicity of Crude Oil to Subarctic Aquatic Vegetation,
W76-11405 9-21 5C

Fluctuations of Phytoplankton Biomass and its Composition in a Subarctic Lake During Summer,
W76-12938 9-24 5C

HELLICKSON, M.
Criteria for Determining Feasibility of Rural Water Supply Systems in Livestock Production Areas,
W76-02367 9-05 3F

HELLIWELL, D. R.
The Value of Vegetation for Conservation I. Four Land Areas in Britain,
W76-00736 9-02 2I

The Value of Vegetation for Conservation II. M1 Motorway Area,
W76-00737 9-02 2I

HELLMAN, T. M.
Techniques for Industrial Odor Control,
W76-03330 9-07 5D

HELM, J. D.
Evaluation of Membrane Oil Pollution Prevention System Research,
W76-12388 9-23 5G

HELMER, R.
Controlling Water Pollution,
W76-05061 9-11 5G

HELWEG, O. J.
Determining Optimal Well Discharge,
W76-03118 9-07 4B

Fibonacci Search for High-Yield Well Sites,
W76-06686 9-13 4B

HELWEG, OJ J.
Step-Drawdown Test Analysis by Computer,
W76-01300 9-03 4B

HEM, J. D.
Effects of Organic Solutes on Chemical Reactions of Aluminum,
W76-02953 9-06 5B

Geochemical Controls on Lead Concentrations in Stream Water and Sediments,
W76-12800 9-24 5A

Reactions of Aqueous Aluminum Species at Mineral Surfaces,
W76-02485 9-05 2K

Water Quality,
W76-03395 9-07 5B

HEMMING, M. L.
Plastic Filters for the Purification of Dairy Product Processing-Generated Waste Waters (Kunstostof Filter-Modules Voor de Zuivering Van Afvalwater, Afhomstig Van de Zuivelverwerking),
W76-07659 9-15 5D

HEMPHILL, D. P.
Oil Spill Cleanup Method and Apparatus,
W76-11846 9-22 5G

HEMPHILL, L.
Electrochemical Production of Free Radicals for Wastewater Treatment,
W76-10876 9-20 5D

HENDERSON, C. D.
Test Program on Environmental Effects of Saltwater Mechanical Cooling Devices,
W76-04826 9-10 5A

HENDERSON, G. S.
Atmospheric Input of Some Cations and Anions to Forest Ecosystems in North Carolina and Tennessee,
W76-12838 9-24 2K

HENDERSON IV, J. E.
Analysis of New Chlorinated Organic Compounds Formed by Chlorination of Municipal Wastewater,
W76-12883 9-24 5A

HENDERSON, J. E. IV.
Formation of Organochlorine Compounds from the Chlorination of a Municipal Secondary Effluent,
W76-03699 9-08 5D

HENDERSON, J. M.
Water Management Planning for Malaria Prevention in the Damodar Valley, India,
W76-02432 9-05 5G

HENDERSON, J. P.
Aquaculture as a Means to Achieve Effluent Standards,
W76-03554 9-08 5D

HENDERSON, M.
A High Sierra Precipitation Measurement Program, Final Report on the 1975 Season,
W76-12446 9-23 2B

HENDERSON, N. C.
Survey Study of Techniques to Prevent or Reduce Discharges of Hazardous Chemicals,
W76-11931 9-22 5G

HENDERSON, T. J.
A High Sierra Precipitation Measurement Program, Final Report on the 1975 Season,
W76-12446 9-23 2B

HENDRICK, J. D.
Organic Sediment Model for Wastewater Outfall,
W76-09951 9-18 5B

Systems Simulation as a Tool for Water Resource Planning, Including Qualitative Aspects,
W76-12551 9-23 4A

HENDRICKS, A. C.
Eutrophic Gradient in Smith Mountain Lake, Virginia,
W76-05627 9-12 5C

HENDRICKS, D. W.
Response of South Platte to Effluent Limitations,
W76-11137 9-21 5B

HENDRICKS, G. F.
Economical Residential Pressure Sewer System with No Effluent,
W76-12861 9-24 5D

Rotating Biological Reactors Remove Nutrients, Part I,
W76-03712 9-08 5D

Rotating Biological Reactors Remove Nutrients, Part II,
W76-03713 9-08 5D

HENDRICKS, T. J.
Modeling the Fates of Metals in Ocean-Discharged Wastewaters,
W76-11464 9-21 5B

HENDRICKSON, G. E.
Hydrology of the Lake Wingra Basin, Dane County, Wisconsin.
W76-00667 9-02 2H

HENDRICKSON, T. N.
Treatment of Photographic Ferrocyanide-Type Bleach Solutions for Reuse and Disposal,
W76-08472 9-16 5D

HENDRY, A.
The Degree of Common Orientation of Hydrometeors Observed by Polarization Diversity Radars,
W76-11745 9-22 2B

HENDZEL, L. L.
Effect of Phosphorus Deficiency on Two Algae Growing in Chemostats,
W76-05465 9-11 5C

Physiological Changes During the Course of Blooms of Aphanizomenon Flos-Aquae,
W76-13114 9-24 5C

HENIN, C.
The Principal Aspects of Desalination of Surface Waters of the Tropical Southwestern Pacific, (In French),
W76-11539 9-21 2D

HENKE, D. E.
Treats Huge Flowrates,
W76-02293 9-05 5D

HENKENER, J. A.
Survey Study of Techniques to Prevent or Reduce Discharges of Hazardous Chemicals,
W76-11931 9-22 5G

HENKIN, L.
Comment On: Geography and the Los Debate: Geographical Factors and the Patterns of Alignment,
W76-07345 9-14 6E

HENLEY, E. J.
Water Use Policies and Power Plant Economics,
W76-09776 9-18 5G

HENNE, R. E.
Recycling Brine From Pickling,
W76-02782 9-06 5D

Recycling Spent Cucumber Pickling Brines,
W76-04732 9-10 5D

HENNIG, E.
Experience with a Pilot Plant for the Irradiation of Sewage Sludge; Design, Operation Experience and Cost Calculations After 18 Months of Continuous Running,
W76-09546 9-18 5D

HENNIGAN, J. J.
Precast Concrete Piles Cut Plant Construction Cost,
W76-01560 9-04 8F

HENRIKSEN, P.
One Private Plant Treats Oil, Chemical Residues in Denmark,
W76-03073 9-07 5D

HENRY, H. W.
Measuring and Minimizing the Social Cost of Environmental Pollution,
W76-05824 9-12 5G

HENSELER, G.
Dewatering of Sewage Sludge Viewed as Part of the Purification Process -- Planning Criteria (Klaerschlammentwaesserung als Teil der Gesamten Klaeraufgabe Betrachtet -- Planungskriterien),
W76-09681 9-18 5D

HENSLER, R. F.
Comparison of Inorganic Nitrogen Contents of Undisturbed, Cultivated, and Barnyard Soil Profiles in Wisconsin,
W76-05263 9-11 5B

Manage Manure for Its Value,
W76-03969 9-08 5E

HENSLEY, C. P.
Efficiency of Heavy Metals Removal in Municipal Sewage Treatment Plants,
W76-08008 9-15 5D

HENSON, E. B.
Materials Budgets of Lake Champlain,
W76-09756 9-18 5A

HENSON, W. H.
An Optimization Technique Adapted to USDAHL-74 Revised Model of Watershed Hydrology,
W76-08523 9-16 2A

HENTGES, J. F. JR.
Feed and Fiber From Effluent-Grown Water Hyacinth,
W76-03551 9-08 5D

HENTHORNE, M.
Understanding Corrosion,
W76-00395 9-01 8G

HENTON, M. P.
The Control of Pollution of Groundwater,
W76-03815 9-08 5G

HEPHER, B.
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W76-01915 9-04 2I

Wastewater Utilization in Integrated Aquaculture and Agriculture Systems,
W76-03543 9-08 5D

HERB, W. J.
Storm-Period Variables Affecting Sediment Transport from Urban Construction Areas,
W76-09840 9-18 2J

Urban-Area Sediment Yield--Effects of Construction-Site Conditions and Sediment-Control Methods,
W76-09841 9-18 4D

HERBERICH, W. J.
Formulation of Water Rates for Baltimore County, Md.,
W76-01608 9-04 6C

HERBERT, F.
A Reexamination of the Equilibrium Conditions in the Theory of Water Drop Nucleation,
W76-01478 9-03 2B

HERBERT, L. R.
Report of Water Levels in Selected Observ
tion Wells in Utah--April 1976,
W76-09832 9-18 4

HERBERT, P. G.
On Hammers,
W76-13026 9-24 8

HERBERT, R. A.
Transformations in Quality of Recharging E
fluent in the Santa Cruz River,
W76-02750 9-06 5

HERBERT, T. L.
Petroleum Hydrocarbons: Degradation a
Growth Potential for Atlantic Ocean Sedime
Bacteria,
W76-10068 9-19 5

HERBLAND, A.
Effect of the Degree of Vacuum Used in Filtr
tion on the Simultaneous Measurement of A
similation and Excretion by Phytoplankton O
ganisms, (In French),
W76-11554 9-21 5

Primary Production in the Mauritanian U
welling in March 1973, (In French),
W76-11555 9-21 5

HERDENDORF, C. E.
Laboratory Estimates of the Seasonal Fin
Temperature Preferenda of Some Lake Er
Fish,
W76-11280 9-21 2

Mercury Occurrence in Sediment Cores fro
Western Lake Erie,
W76-06137 9-12 5

HERER, D. O.
Electrolytic Coagulation of Lignin from Kra
Mill Bleach Plant Wastewaters,
W76-05708 9-12 5

HERGENRADER, G. L.
Comparative Primary Productivity of Tw
Flood Control Reservoirs in the Salt Valle
Watershed of Eastern Nebraska,
W76-07254 9-14 5

Eutrophication of Small Reservoirs in Easte
Nebraska,
W76-07258 9-14 5

HERGERT, G. W.
Some Observations Concerning Preparatio
and Storage of Stream Samples for Dissolve
Inorganic Phosphate Analysis,
W76-00538 9-02 5

HERGERT, H. L.
Method for Treating Hemi Caustic Effluents,
W76-12495 9-23 5

HERIK, A. G.
Water Pollution Through Rain Overflows fro
Mixed Sewers (Gewasserverschmutzung Durc
Regenuberlaufe Aus Mischkanalisationen),
W76-10688 9-20 5

HERKELMANN, H.
Laboratory and Pilot Experiments on th
Anodic Oxidation of Cyanide in Galvanizin
Waste Waters (Versuche im Labor und in
Halbtechnischen Masstab zur Anodischen Ox
idation des Cyanids in Galvanischen Abwas
sern),
W76-05286 9-11 5

ERMANN, G. J.
Mixing in Sprinkler Irrigation Systems,
W76-00834 9-02 3F

ERMANSON, R. E.
Effect of Soil-Incorporated Dairy Cattle Manure on Runoff Water Quality and Soil Properties,
W76-10539 9-20 5B

ERMSMEIER, L. F.
Field Leaching by Sprinkler and Surface Irrigation During a Crop Season,
W76-01081 9-03 4B

ERN, J. L.
Removal of Undesirable Cations from Acid Mine Water by a New Cation-Exchange Material,
W76-11776 9-22 5D

ERNER, B. P.
Polymer Applications Increasing in Water and Waste Treatment,
W76-00212 9-01 5D

ERODEK, S.
Primary Production in the Frozen Lake Balaton,
W76-09991 9-18 5C

The Primary Production of Phytoplankton in Lake Balaton April-September 1972,
W76-09992 9-18 5C

ERR, G.
24 Million Pounds of Opportunity,
W76-00477 9-01 5D

ERREMA, D. J.
Exotic Fishes in Fresh and Brackish Waters of Florida,
W76-07421 9-14 2I

ERREN, A.
Waste Water Neutralization with Flue Gas (Abwasser-Neutralisation Mit Rauchgas),
W76-06961 9-14 5D

ERRICKS, E. E.
Models to Predict Environmental Impact of Mine Drainage on Streams,
W76-04944 9-10 5B

Preplanning Mining Operations to Reduce the Environmental Impact of Mine Drainage on Streams,
W76-06939 9-14 5G

ERRIGEL, H.
Operating Data of a Vertical Plane Surface, Falling Film Evaporator Using Slurry and High Concentration Feeds,
W76-06250 9-13 3A

Parametric Data for Long Term Operation of a Vertical, Plane Surface, Falling Film, Vapor Compression Evaporator,
W76-06249 9-13 3A

ERRING, K. S.
Concrete for Tunnel Liners: Behavior of Steel Fiber Reinforced Concrete Under Combined Loads,
W76-02545 9-06 8F

ERRMANN, F. A. JR.
Overview of Physical Estuary Practice,
W76-10444 9-19 2L

ERRNBERGER, V. R. D.
Fission Product Gamma-Ray Sources as an Alternative to Cobalt-60 Sources for Sewage Sludge Sterilization,
W76-09541 9-18 5D

ERRON, M. M.
The Chemistry of 700 Years of Precipitation at Dye 3, Greenland,
W76-12181 9-23 5A

ERSCHMILLER, D. W.
Ion Flotation for Color Removal from Kraft Mill Effluent,
W76-00041 9-01 5D

ERSHAFT, A.
Assessment of the Benefits of Environmental Remote Sensing,
W76-10670 9-20 5A

Study of Federal Water Quality Monitoring Efficiency,
W76-12697 9-24 5G

Wastewater Flow Reduction in the Home,
W76-06280 9-13 3D

ERSHFIELD, D. M.
Some Small-Scale Characteristics of Extreme Storm Rainfalls in Small Basins,
W76-00301 9-01 2B

ERSHMAN, M.
Coastal Zone Management: The Process of Program Development,
W76-05204 9-11 6B

ERSHMAN, M. J.
Achieving Federal-State Coordination in Coastal Resources Management,
W76-07359 9-14 6E

Coastal Zone Management and Intergovernmental Coordination,
W76-06057 9-12 6E

ERZ, H.
Power Generator,
W76-04600 9-10 8C

ERZOG, H. W. JR.
Economic Efficiency and Equity in Water Quality Control: Effluent Taxes and Information Requirements,
W76-07141 9-14 5G

ESLINGA, G. A.
Effects of Copper on the Coral Reef Echinoid Echinometra Mathaei,
W76-09113 9-17 5C

ESS, E.
Epidemiology of Salmonellae and Fertilizing of Grassland With Sewage Sludge (Salmonellenepidemiologie und Gruenlandduengung Mit Klaerschlamm),
W76-03807 9-08 5C

Sanitary Effect of Gamma Irradiation on Sewage Sludge,
W76-09527 9-18 5D

ESS, H. D.
Environmental Impact Study of Offshore Sand and Gravel Mining,
W76-09910 9-18 6G

ESS, H. V.
Coking of Waste Kraft Pulping Liquors at Lowered pH,
W76-07761 9-15 5D

Process for Converting Aqueous Sewage to Potable Water,
W76-11215 9-21 5D

Process for Treating Water-Soluble Organic Wastes,
W76-08482 9-16 5D

ESS, J. W.
Characterization of Nitrogen Sources Contaminating Shallow Ground Water in an Arid Basin. Las Vegas Area, Nevada,
W76-09762 9-18 5B

Regional Hydrochemistry of North American Carbonate Terrains,
W76-04298 9-09 2K

ESS, K. W.
Simulating the Impact of the Entrainment of Winter Flounder Larvae,
W76-07488 9-15 8I

A Three-Dimensional Numerical Model of the Estuary Circulation and Salinity in Narragansett Bay,
W76-11746 9-22 2L

ESS, W. C.
Methodology for Application of Adenosine Triphosphate Determination in Wastewater Treatment,
W76-03232 9-07 5D

ESSLEIN, R.
Vertical Eddy Diffusion Studies in the Thermocline of a Small Stratified Lake,
W76-04082 9-09 5B

ESTAND, R. S.
Comparative Effects of Diquat Plus Copper Sulfate on Aquatic Organisms,
W76-09821 9-18 5C

ESTER, J. M.
Nekton Population Dynamics in the Albemarle Sound and Neuse River Estuaries,
W76-08037 9-15 5C

ETH, D.
Drought Tolerance of Pine Seedlings Under Various Climatic Conditions,
W76-00712 9-02 2I

ETHERINGTON, J. A.
Environmental and Public Health Consequences of the Controlled Disposal of Transuranic Elements to the Marine Environment,
W76-08604 9-16 5C

ETRICK, C. C.
Public Opinion and the Environment: Ecology, the Coastal Zone, and Public Policy,
W76-09035 9-17 6G

ETRICK, F. M.
Survival of Human Pathogens in the Marine Environment,
W76-10890 9-20 5C

ETTEL, H. J.
Controlled Generation of Large Volumes of Atmospheric Clouds in a Ground-Based Environmental Chamber,
W76-02686 9-06 2B

ETTLER, A.
Biomass of Zooplankton in the Newport River Estuary and the Influence of Postlarval Fishes,
W76-06153 9-13 2L

HETTLER, W. F.
Influence of Temperature and Salinity on Routine Metabolic Rate and Growth of Young Atlantic Menhaden,
W76-10063 9-19 5C

Mercury and Iron Uptake by Cytosomes in Mantle Epithelial Cells of Quahog Clams (Mercenaria Mercenaria) Exposed to Mercury,
W76-03027 9-07 5C

HEUTMAKER, D.L.
Waste Injection Into the Hawaiian Ghyben-Herzberg Aquifer: A Laboratory Study Using a Sand-Packed Hydraulic Model,
W76-11777 9-22 5B

HEWES, C. G. III.
Ozone/UV Process Effective Wastewater Treatment,
W76-04033 9-09 5D

HEWITT, R. A.
Analysis of Aragonite from the Cuttlebone of Sepia Officinalis L.,
W76-01108 9-03 5A

HEWLETT, J. D.
First-Year Water Yield Increase After Forest Cutting: An Alternative Model,
W76-08362 9-16 4C

Non-Point and Diffused Water Sources: A Variable Source Area Problem,
W76-07026 9-14 5G

HEY, D. L.
A Marginal Cost Basis for Metropolitan Water Supply Allocation and Operation,
W76-06164 9-13 6A

HEYRAUD, M.
Relative Importance of Food and Water in Long-Term Zinc-65 Accumulation of Marine Biota,
W76-03780 9-08 5C

HIASA, T.
Ammonia Nitrogen Removal from Waste Water Effluents by Zeolite Ion Exchange and Electrolysis Combination (Zeoraito ni yoru ion-kokan-denkai no kumiawase ni yoru haisui karano ammoniasei chisso jokyo),
W76-09023 9-17 5D

Process of Removing Ammoniacal Nitrogen from Waste Water,
W76-06463 9-13 5D

HIBBERT, A. R.
Managing Chaparral for Water and Other Resources in Arizona,
W76-06597 9-13 3B

Water Resources Research on Forest and Rangelands in Arizona,
W76-02220 9-05 4A

HIBLER, W. D. III.
Characterization of Cold-Regions Terrain Using Airborne Laser Profilometry,
W76-05393 9-11 7B

HICKEL, B.
The Application of the Scanning Electron Microscope to Freshwater Phytoplankton Taxonomy and Morphology,
W76-09225 9-17 5A

HICKEY, B. M.
Alongshore Coherence at Low Frequencies in Currents Observed over the Continental Shelf Off Oregon and Washington,
W76-01271 9-03 2L

HICKEY, C. R. JR.
The Effects of Temperature on the Development and Survival of the Eggs and Larvae of the Atlantic Silverside, Menidia Menidia,
W76-03777 9-08 5C

HICKEY, J. L. S.
Health Significance of Airborne Microorganisms from Waste Water Treatment Processes, Part II: Health Significance and Alternatives for Action,
W76-06327 9-13 5C

Health Significance of Airborne Microorganisms from Wastewater Treatment Processes, Part I: Summary of Investigations,
W76-06326 9-13 5C

HICKEY, M. M.
Application of the Winters Doctrine: Quantification of the Madison Formation,
W76-07808 9-15 6E

HICKMAN, M.
The Effect of Thermal Effluent Upon the Standing Crop of an Epiphytic Algal Community,
W76-00330 9-01 5C

Thermal Stratification and Heating Mechanisms in a Small Lake,
W76-12139 9-22 2H

HICKMAN, R. R.
Offshore Operations, Regulation and Environmental Protection,
W76-11480 9-21 6G

Offshore Petroleum Drilling and Production,
W76-09332 9-17 5G

HICKS, F. W.
Modify Your Poultry House for Manure Drying,
W76-00480 9-01 5D

HICKS, N. G.
Potential for Agriculture Utilizing Waste Heat from Power Plants,
W76-00757 9-02 3C

HICKS, S. D.
An Average, Long-Period, Sea-Level Series for the United States,
W76-03188 9-07 2L

HIDEO, N.
Preparation of Activated Sludge and Treatment of Waste Water Therewith,
W76-05028 9-11 5D

HIDER, S. A.
Treatment of Paper Box Plant Effluents,
W76-05302 9-11 5D

HIDY, G. M.
Urban Aerosols and Inadvertent Weather Modification,
W76-10913 9-20 4C

HIEMSTRA, L. A. V.
A Method of Finding the Family of Runhydrographs for Given Return Periods,
W76-12195 9-23 2E

HIGER, A. L.
Relation of Water Level and Fish Availabi to Wood Stork Reproduction in the South Everglades, Florida,
W76-05850 9-12

Water Management Model in Florida fr ERTS-1 Data,
W76-00096 9-01

HIGGINS, B. P. J.
Automation of Water Supply Systems,
W76-12817 9-24

HIGGINS, B. R.
The Contribution of a Water Informat System for Environmental Planning in M nesota,
W76-09753 9-18

HIGGINS, G. R.
Evaluation and Adaptation of Selected Co puter Programs to Water Resource Problems Massachusetts,
W76-10129 9-19

HIGGINS, G. T.
Data on Selected Lakes in Washington, Part
W76-08564 9-16

HIGHBY, J. H.
Self-Monitoring Procedures: Basic Laborato Skills (164.6) Student Reference Manual,
W76-12377 9-23

HIGHFILL, J. W.
Water Pollution Sampler Evaluation,
W76-10261 9-19

HIGO, T.
Multi-Phased Model Study of the Seto Inla Sea,
W76-10430 9-19

HIGUCHI, H.
Tidal Residual Circulations in the Hydrau Model,
W76-10431 9-19

HIIRO, K.
A Simple Metho dthe for Detection of Floati Oils on Water, (In Japan),
W76-04062 9-09

HILBELINK, P. A.
Water Monitoring - Jim Bridger Project Sweetwater County, Wyoming,
W76-09349 9-17

HILDEBRANDT, R. W.
Drip Irrigation Method,
W76-03000 9-06

Drip Irrigation System,
W76-03010 9-07

HILDER, E. A.
Optimization of Water Use Efficiency Unde High Frequency Irrigation: II System Simula tion and Dynamic Programming,
W76-01083 9-03

HILEMAN, L. H.
Mineral Quality of Fish Pond Effluent Relate to Soil Properties and Crop Production,
W76-03569 9-08

HILER, E. A.
Effects of Inundation Period on Seedlin Growth,
W76-01084 9-03

High Electrolyte Water for Reclaiming Slowly Permeable Soils,
W76-01077 9-03 2G

Increased Water use Efficiency Through Trickle Irrigation,
W76-06904 9-14 3F

Irrigation Timing by the Stress Day Index Method,
W76-01082 9-03 3F

Trickle and Sprinkler Irrigation of Grain Sorghum,
W76-13003 9-24 3F

Trickle Irrigation Lateral Design,
W76-01568 9-04 3F

Trickle Irrigation with Water of Different Salinity Levels,
W76-08550 9-16 3C

HILL, A.
Water Pollution Control Act of 1972, Economic Impacts, Metal Finishing Industry,
W76-10556 9-20 5G

HILL, B. J.
Heart Rate of the Crab Scylla Serrata (Forskal) in Air and in Hypoxic Conditions,
W76-03019 9-07 5C

HILL, D.
Intermittent Sand Filters for Upgrading Lagoon Effluents,
W76-00257 9-01 5D

Intermittent Sand Filtration to Upgrade Lagoon Effluents--Preliminary Report,
W76-07051 9-14 5D

HILL, D. E.
Phosphate Sorption Characteristics of Soils Treated with Domestic Waste Water,
W76-06330 9-13 5B

HILL, D. M.
Natural and Agricultural Ecosystems,
W76-08667 9-16 6G

HILL, D. O.
Hydrodynamic and Material Transport Model for Mobile Bay, Alabama,
W76-09983 9-18 5B

HILL, D. R.
Traction-Driven Composite Sludge Raking Mechanism for Sedimentation Tanks,
W76-10206 9-19 5D

HILL, G. A.
Substrate Inhibition Kinetics: Phenol Degradation by Pseudomonas Putida,
W76-04783 9-10 5D

HILL, G. F.
Practical Application of a Biological/Physical/Chemical Treatment System to Meat Packing Wastewater,
W76-04745 9-10 5D

HILL, J.
The Fiberlog, a New Monitor for Fibrous Effluents,
W76-10843 9-20 5A

HILL, J. IV
Dynamic Behavior of Vinyl Chloride in Aquatic Ecosystems,
W76-07247 9-14 5C

HILL, J. R.
Sedimentation in Lake Lemon, Monroe County, Indiana,
W76-01314 9-03 2J

HILL, L. O.
Fundamentals of Drift Control by Droplet Size Selection,
W76-11148 9-21 5G

HILL, S. E.
Sea Water Corrosion Test Program: Part Three,
W76-03145 9-07 3A

HILL, T. K.
Water Quality in a Recirculating Raceway System for Fish Culture,
W76-10546 9-20 5G

HILL, W. F. JR.
Apparatus for Conditioning Unlimited Quantities of Finished Waters for Enteric Virus Detection,
W76-12168 9-23 5A

HILL, W. W.
NEPA's Influence on Federal Water Planning: Part I, Effect of the 'Review and Comment Process' on the Corps of Engineers and Soil Conservation Service,
W76-01800 9-04 6B

HILLEL, D.
A Microscopic-Scale Model of Soil Water Uptake and Salt Movement to Plant Roots,
W76-03860 9-08 2G

Simulation of Evaporation From Bare Soil Under Steady and Diurnally Fluctuating Evaporativity,
W76-01302 9-03 2D

Water Conservation in Arid-Zone Soils,
W76-09478 9-18 3B

HILLEL, D. I.
Dynamic Simulation of Water Storage in Fallow Soil as Affected by Mulch of Hydrophobic Aggregates,
W76-03365 9-07 2G

HILLER, E. A.
Plant Measurements as Indicators of Crop Water Deficit,
W76-10622 9-20 3F

HILLGER, D. W.
Satellite Support to the Hiplex Activities for 1975,
W76-06613 9-13 3B

HILLHOUSE, W. A. II.
Integrating Ground and Surface Water Use in an Appropriation State,
W76-01960 9-04 4B

Water Rights,
W76-00974 9-02 6E

HILLMAN, R. E.
Environmental Monitoring Through the use of Exposure Panels,
W76-07490 9-15 5A

HILLS, E.
Some Problems of the Investigation of Waste Waters Generated in the Petroleum Industry (Koolajipari szennyvizek vizsgalatanak nehany kerdese),
W76-06974 9-14 5A

HILSENHOFF, W. L.
Aquatic Insects of Wisconsin,
W76-06215 9-13 5C

HILTY, E. L.
Studies of Columbia River Water Quality Development of Mathematical Models for Sediment and Radionuclide Transport Analysis,
W76-12702 9-24 5B

HIMMELBLAU, D. M.
Kinetic Modeling of Aeration Basins,
W76-01286 9-03 5D

HINDALL, S. M.
The Availability of Ground Water for Irrigation in the Rice Lake-Eau Claire Area, Wisconsin,
W76-09348 9-17 4B

Measurement and Prediction of Sediment Yields in Wisconsin Streams,
W76-07600 9-15 2J

HINDE, P. T.
Ignition and Combustion in Situ of Oil from Wrecked Oil Tankers: Small Scale Burning Tests Carried Out at the RPE,
W76-04312 9-09 5G

HINDIN, E.
Ion Activity Electrode Method Yields Chloride Ion Concentration,
W76-03234 9-07 5A

HINES, D. A.
Novel Aeration System Bows,
W76-06289 9-13 5D

HINES, M. S.
Flow-Duration and Low-Flow Frequency Determinations of Selected Arkansas Streams,
W76-04406 9-09 4A

HINES, R. S.
Genetic Differences in Susceptibility to Two Diseases Among Strains of the Common Carp,
W76-06764 9-13 5C

Ichthyophthiriasis in the Mirror Carp Cyprinus Carpio (L.): IV. Physiological Dysfunction,
W76-07261 9-14 5C

Ichthyophthiriasis in the Mirror Carp Cyprinus Carpio (L): V. Acquired Immunity,
W76-07262 9-14 5C

Ichthyophthiriasis in the Mirror Carp: II. Leukocyte Response,
W76-01410 9-03 8I

HINES, W. G.
Formulation and Use of Practical Models for River Quality Assessment,
W76-01006 9-03 5G

Formulation and use of Practical Models for River Quality Assessment,
W76-06209 9-13 5G

Methods and Data Requirements for River-Quality Assessment,
W76-01334 9-03 5A

Planning Implications of Dissolved Oxygen Depletion in the Willamette River, Oregon,
W76-10332 9-19 5G

HINESLY, T. D.
Cadmium and Zinc Contents of Corn Leaf and Grain Produced by Sludge-Amended Soil,
W76-06304 9-13 5A

HINKLEY, J. R.
First the Water, Then the Sewer, Then Land Use Planning: Coastal Planning in Retrospect and in the Now,
W76-11622 9-21 5D

HINO, M.
Long- and Short-Term Forecasting of River Discharge, (In Japanese),
W76-01454 9-03 4A

HINRICHS, D. G.
Effect of Effluent from Beef Feedlots on the Physical and Chemical Properties of Soil,
W76-04289 9-09 5B

HINSON, E. R.
Aeration-Stabilization Waste Treatment: A Case History,
W76-02472 9-05 5D

HINSTRUP, P. I.
River and Estuary Modeling with the Siva System,
W76-09982 9-18 2A

HINTERBERGER, J. A.
Use of Reverse Osmosis and Ultrafiltration for Removing Microorganisms From Water,
W76-03349 9-07 5F

HINWOOD, J. B.
Classification of Models of Tidal Waters,
W76-01481 9-03 2L

Classification of Models to Tidal Waters,
W76-01780 9-04 5B

Review of Models of Tidal Waters,
W76-02689 9-06 5B

Review of the Models of Tidal Waters,
W76-03798 9-08 5B

Some Components of an Ecosystem Model of Westernport Bay,
W76-04148 9-09 5B

Two-Dimensional Mathematical Water Quality Model,
W76-08135 9-16 5B

HIPEL, K. W.
Intervention Analysis in Water Resources,
W76-03165 9-07 2E

Metagame Theory and its Applications to Water Resources,
W76-09847 9-18 6A

Political Resolution of Environmental Conflicts,
W76-11129 9-21 6G

HIRABAYASHI, K.
Biological Treatments of Acid Azo Dyes by Microbial Populations in Activated Sludge, (In Japanese),
W76-03074 9-07 5D

HIRAKAWA, Y.
Sewage Purification Device (Osui joka sochi),
W76-00770 9-02 5D

HIRAOKA, M.
The Control of Waste Water Flow of New Town into the Treatment Plant (Danchi gesuishorijo no ryunyusui no seigyo ni kansuru kenkyu),
W76-07012 9-14 5D

The Forecasting, of Inflow Variation into the Waste Water Treatment Facility in the New Town, (In Japanese),
W76-01449 9-03 5D

HIRAYAMA, K.
Effect of Anaerobic Conditions in Bottom Waters on the Occurrence of Red Tides at Omura Bay,
W76-07101 9-14 5C

HIROI, K.
Instrumentation and Control for Water Works (Suidosetsubi no keisoku to seigyo),
W76-09024 9-17 5F

HIROSE, F.
Experimental Report for Regeneration of Activated Carbon and Recalcination of Lime Sludge (Kasseitan, sekkai-oden no saisei jikken hokoku),
W76-09223 9-17 5D

HIROSE, M.
Apparatus for Photo-Oxidation of Water,
W76-04287 9-09 5D

HIROTA, K.
Method of Preventing Scale From Being Deposited In Case of Producing Fresh Water From Sea Water,
W76-05971 9-12 3A

HIROTA, P. M.
Magic Island...Ten Years After,
W76-00889 9-02 8A

HIRS, G.
Method and Apparatus for Rejuvenating a Bed of Granular Filter Medium,
W76-09424 9-18 5D

Method and Apparatus for Treating Liquid Contaminated with Radioactive Particulate Solids,
W76-13142 9-24 5D

Method of and Apparatus for Filtering,
W76-00595 9-02 5D

Method of and Apparatus for Filtering Water,
W76-04612 9-10 5F

HIRSCH, J. H.
The Potential for Rainfall Increases from Convective Clouds in the Northern Plains,
W76-06607 9-13 3B

HIRSCH, R. M.
Rookery Bay Land Use Studies, Environmental Planning Strategies for the Development of a Mangrove Shoreline, Study No. 10, Growth and Land Use, Study No. 11, Economic Implications of Land Development Alternatives, Study No. 12, A Simulation Modeling Approach to the Study of Development Alternatives,
W76-05009 9-11 5G

HIRST, E.
Environmental Control in Animal Shelters Using Power Plant Thermal Effluents,
W76-10507 9-20 5G

HIRST, T. J.
Bulk Density-Water Content Relationship in Marine Silts and Clays,
W76-11771 9-22 2L

HISCOCK, K.
The Ecology of Sublittoral Communities at Abereiddy Quarry, Pembrokeshire,
W76-03763 9-08 5C

HISCOX, J. J.
Effects of a Parasitic Gut Nematode on Co sumption and Growth in Juvenile Rainbo Trout (Salmo Gairdneri),
W76-01622 9-04

HISS, W. L.
Chemical Quality of Ground Water in t Northern Part of the Albuquerque-Belen Basi Bernalillo and Sandoval Counties, New Me ico,
W76-03394 9-07

Evaluation and Proposed Study of Potent Ground-Water Supplies, Gallup Area, Ne Mexico,
W76-03905 9-08

Interpretation of Geologic and Hydrologic Da from the Ray-1 Well, City of Gallup, McKinl County, New Mexico,
W76-04396 9-09

Map Showing Thickness of the Permi (Guadalupian) Captain Aquifer, Southeast Ne Mexico and West Texas,
W76-02134 9-05

Structure of the Permain Guadalupian Capit Aquifer, Southeast New Mexico and We Texas,
W76-04987 9-10

Water-Quality Data from Oil and Gas Wells Part of the Permian Basin, Southeastern Ne Mexico and Western Texas,
W76-04395 9-09

HISTED, J. A.
Water Reuse and Recycle in D(C)Ede Bleaching,
W76-03076 9-07

Water Reuse and Recycle in the C(D)EHDE Bleach Sequence,
W76-11385 9-21

Water Reuse and Recycle in the CDEHDE Bleach Sequence,
W76-07760 9-15

HITCHCOCK, K. W.
Studies of High-Rate Biological Treatment Ipswich Sewage on Pilot Filters using Plastic Media,
W76-09029 9-17

HITE, G. C.
Minnesota Environmental Impact Statements A Users Viewpoint,
W76-06559 9-13

HITES, R. A.
Sampling Errors in the Quantification o Petroleum in Boston Harbor Water,
W76-10387 9-19

HITOMI, O.
Mathematical Model of Water Characteristic in the Sewage Treatment Plant (Gesui shorijo n okeru suishitsu tokusei no sushiki model),
W76-01451 9-03

HITTE, S. J.
Anaerobic Digestion of Solid Waste an Sewage Sludge into Methane,
W76-09153 9-17

HJELMFELT, A. T. JR.
Hydrology for Engineers and Planners,
W76-00531 9-02

JERMSTAD, L. M.
Colorado River Basin Pilot Project, Final Comprehensive Operations Report,1970-1975 Season,
W76-06564 9-13 3B

JORT, J.
Sedimentation Technology in Development (Sedimentation-Teknik under Utveckling),
W76-08020 9-15 5D

INATIUK, J.
An Environmental Research Program for Drilling in the Canadian Beaufort Sea,
W76-09912 9-18 5G

INYILICZA, E.
Energy Systems: Modeling and Policy Planning,
W76-09608 9-18 6A

IO, C. L.
Distribution of Nutrients in Louisiana's Coastal Waters Influenced by the Mississippi River,
W76-05259 9-11 5B

IO, F. P.
Storm Tide Frequency Analysis for the Coast of North Carolina, North of Cape Lookout,
W76-03181 9-07 2B

HO, P. Y.
The Influence of Local Advection on Evapo-Transpiration from Irrigated Rice in a Semi-Arid Region,
W76-00713 9-02 2D

HOADLEY, A. W.
Disinfection, (Literature Review),
W76-12924 9-24 5F

HOAGLAND, E.
Acid-Iron Waste as a Factor Affecting the Distribution and Abundance of Zooplankton in the New York Bight: I. Laboratory Studies on the Effects of Acid Waste on Copepods,
W76-09700 9-18 5C

HOAGMAN, W. J.
Drastic Reduction of the White Perch, Morone Americana, Population in the James River, Virginia,
W76-01928 9-04 5C

HOARE, R.
The Ecology of Sublittoral Communities at Abereiddy Quarry, Pembrokeshire,
W76-03763 9-08 5C

HOASHI, K.
The Present Condition of Water Pollution and the Future Problems (Suishitsu odaku no genjo to kongo no mondaiten),
W76-08007 9-15 5A

HOBBA, W. A. JR.
Records of Wells, Springs, and Streams in the Potomac River Basin, West Virginia,
W76-08055 9-15 4B

HOBBS, D.
Social Well-Being and Quality of Life: Science, Politics or Movement.
W76-05370 9-11 6B

HOBBS, E. J.
Toxicity of Polydimethylsiloxanes in Certain Environmental Systems,
W76-10348 9-19 5C

HOBBS, M. F.
Virus Removal and Inactivation by Physical-Chemical Waste Treatment,
W76-07999 9-15 5D

HOBBS, P. V.
Atmospheric Effects of Pollutants,
W76-10903 9-20 5A

Cascade Atmospheric Water Resources Program, Volume I,
W76-06600 9-13 3B

Cascade Atmospheric Water Resources Program, Volume 2,
W76-06601 9-13 3B

Cascade Atmospheric Water Resources Program, Volume 3,
W76-06602 9-13 2B

Particle Emissions from a Large Kraft Paper Mill and Their Effects on the Microstructure of Warm Clouds,
W76-10904 9-20 5A

HOBSON, P. N.
The Anaerobic Digestion of Waste From an Intensive Pig Unit,
W76-01379 9-03 5D

HOBSON, S.
Suspended Sediment and Turbidity in Irrigation Return Flows - A Prototype Study,
W76-13017 9-24 5B

HOCH, J.
Submerged Thermal Discharges,
W76-04799 9-10 5B

HOCHREIN JR, A. A.
Evaluation of Membrane Oil Pollution Prevention System Research,
W76-12388 9-23 5G

HOCHSTEIN, A. B.
Optimum Dredged Depth in Inland Waterway,
W76-06182 9-13 2J

HOCUTT, C. H.
Assessment of a Stressed Macroinvertebrate Community,
W76-05636 9-12 5C

Relationships Between Sediment Oil Concentrations and the Macroinvertebrates Present in a Small Stream Following an Oil Spill,
W76-01910 9-04 5C

HODD, S. L.
Physical and Settling Characteristics of Particulates in Storm and Sanitary Wastewaters,
W76-00372 9-01 5D

HODENBENNER, K.
Re-Use and Disposal of Waste Acids,
W76-08721 9-16 5D

HODGDON, A.
Irrigation Method as a Determinant of Large Pore Persistence and Crust Strength of Cultivated Soils,
W76-00699 9-02 2G

HODGE, G.
Operating Experience with an Advanced Color Removal System,
W76-02471 9-05 5D

HODGE, V. F.
210Po Radioactivity in Organs of Selected Tunas and Other Marine Fish,
W76-07962 9-15 5C

HODGES, F. C. C.
Control of Abstraction by Law,
W76-06423 9-13 6E

HODGES, H. E.
Rainfall-Runoff Data from Small Watersheds in Colorado, October 1971 through September 1974,
W76-06446 9-13 7C

HODGETTS, B.
Animal Waste in the U. S. A.,
W76-00463 9-01 5D

HODSON, G. M.
New Log Data Give Better North Sea Well Completions,
W76-03524 9-08 4B

HODSON, P. V.
Delta-Amino Levulinic Acid Dehydratase Activity in Fish Blood as an Indicator of a Harmful Exposure to Lead,
W76-10338 9-19 5C

HODSON, R. E.
Improved Methodology for ATP Determination in Marine Environments,
W76-08958 9-17 5C

HOEFT, J. E.
Wet Air Oxidation at Ontonagon,
W76-11384 9-21 5D

HOEGBERG, R. G.
Recovery of Oil and Oil-Soluble Contaminants from the Surface of Water,
W76-01714 9-04 5G

HOEHN, R. C.
Effect of Halogens and Ozone on Schistosoma Ova,
W76-03252 9-07 5C

Modeling the Effect of Waste Discharges in a Small Mountain Stream,
W76-05834 9-12 5B

Relationships Between Sediment Oil Concentrations and the Macroinvertebrates Present in a Small Stream Following an Oil Spill,
W76-01910 9-04 5C

HOEKE, B.
Purification of Textile Waste Water-Results of Experiment Series (Reinigung Von Textilabwaessern-Ergebnisse Von Versuchen),
W76-05110 9-11 5D

HOELTGEN, J. B.
Liquid Purifying Process,
W76-05528 9-12 5D

HOFF, J. K.
Drip Irrigation Tap and System,
W76-03514 9-08 3F

HOFFER, P. L.
How Much to Abate Pollution,
W76-04539 9-10 5G

HOFFER, R. M.
Techniques for Computer-Aided Analysis of ERTS-1 Data, Useful in Geologic, Forest and Water Resource Surveys,
W76-02053 9-05 7C

HOFFERBERT, W. L.
Reverse Osmosis Process Using Crosslinked Aromatic Polyamide Membranes,
W76-01134 9-03 3A

HOFFERBERT, W. L.

Reverse Osmosis Process Using Crosslinked Aromatic Polyamide Membranes,
W76-09877 9-18 3A

HOFFERT, R. J.
In Vivo Oxygen Toxicity in Invertebrates and Vertebrates,
W76-03016 9-07 5C

HOFFMAN, B.
Will Texas Have Enough Water for the Electric Utility Industry,
W76-00421 9-01 6D

HOFFMAN, C. A.
Catalyzed Process and Catalyst Recovery,
W76-05064 9-11 5D

Paper Mill Waste Sludge Oxidation and Product Recovery,
W76-12493 9-23 5D

HOFFMAN, D. L.
Infiltration of Organic Phosphate Compounds in Soil,
W76-06170 9-13 5B

HOFFMAN, F.
210Po Radioactivity in Organs of Selected Tunas and Other Marine Fish,
W76-07962 9-15 5C

HOFFMAN, G.
Basic Performance Parameters for Oxygenation and Liquid Circulation in Rotor-Aerated Liquid Waste Systems,
W76-01092 9-03 5D

HOFFMAN, G. J.
Salinity-Ozone Interactive Effects on Alfalfa Yield and Water Relations,
W76-06269 9-13 3C

HOFFMAN, G. L.
Geohydrology of the Oklahoma Panhandle, Beaver, Cimarron, and Texas Counties,
W76-13081 9-24 4B

Parasites of Freshwater Fishes. A Review of their Control and Treatment,
W76-05953 9-12 2H

HOFFMAN, K. C.
Coupled Energy System-Economic Models,
W76-09605 9-18 6A

Energy Projections--Relationship to Policy Issues,
W76-09603 9-18 6A

HOFFMAN, L.
Pyramid Lake: Zooplankton Distribution and Blooms of the Blue Green Alga, Nodularia spumigena,
W76-08374 9-16 5C

HOFFMANN, B.
Optimization of Groundwater Withdrawals with Regard to Technical and Hydrological Constraints,
W76-12544 9-23 4B

HOFFMANN, J.
Temperature Optimum of Algae Living in the Outfall of a Power Plant on Lake Monona,
W76-06001 9-12 5C

HOFMANN, E. G.
Practical Aspects of the Pasteurization of Sewage Sludge by Electron Irradiation,
W76-09540 9-18 5D

HOFMANN, R.
Study of the Phosphate Metabolism of a Drinking Water Reservoir, (In German),
W76-06785 9-13 5C

HOFMANN, W.
Synergistic Effects of Airborne Emissions from Nuclear Power Plants,
W76-09503 9-18 5A

HOFSTRA, W. E.
Geologic Control of Supply and Quality of Water in the Mountainous Part of Jefferson County, Colorado,
W76-01585 9-04 7C

HOGARTY, T. F.
The Impact of Large Temporary Rate Changes on Residential Water Use,
W76-07738 9-15 6D

HOGG, W. D.
Monthly Evapotranspiration Estimates for the Canadian Land Portion of the Lake Ontario Basin During the IFYGL,
W76-11297 9-21 2D

HOGGAN, D. H.
Development of Regional Supply Functions and a Least-Cost Model for Allocating Water Resources in Utah: A Parametric Linear Programming Approach,
W76-02876 9-06 6A

HOGLUND, C. B.
A Summary of State Regulations Pertaining to Animal Waste Management in the North Central Region of the United States,
W76-11060 9-20 5G

HOGLUND, C. R.
An Economic Appraisal of Alternative Dairy Waste Management Systems Designed for Pollution Control,
W76-10547 9-20 5D

Impacts of Imposing Selected Pollution Controls,
W76-03982 9-08 5G

HOGUE, H.
A Study of the Effects of Detergents on Typical Bilge Waters and Correlation of Oil Particle Sizes,
W76-11939 9-22 5C

HOIGNE, J.
Aqueous Radiation Chemistry in Relation to Waste Treatment, An Introductory Review,
W76-09529 9-18 5D

Comparison of the Chemical Effects of Oxone and of Irradiation on Organic Impurities in Water,
W76-09535 9-18 5D

Ozonation of Water: Role of Hydroxyl Radicals as Oxidizing Intermediates,
W76-03703 9-08 5F

The Role of Hydroxyl Radical Reactions in Ozonation Processes in Aqueous Solutions,
W76-10036 9-19 5D

HOJERSLEV, N.
A Spectral Light Absorption Meter for Measurements in the Sea,
W76-05680 9-12 7B

HOLBERGER, R.
Impacts of Hydrologic Modification on Water Quality,
W76-05866 9-12 5G

HOLBO, H. R.
A Multiple-Well, Water-Level Measuring a Recording System,
W76-04961 9-10

HOLBROOK, D.
Flood Protection Zoning as a Factor in Det mining Damages in Eminent Dom Proceedings,
W76-12054 9-22

HOLDEN, P. B.
Distribution of Fishes in the Dolores a Yampa River Systems of the Upper Colora Basin,
W76-02667 9-06

HOLDREN, G. C.
Phosphorus Mobility in Lake Ontario Se ments,
W76-11288 9-21

HOLDREN, J. P.
Human Ecology. Problems and Solutions,
W76-00987 9-02

HOLDSWORTH, G.
Deformation and Flow of Barnes Ice Cap - B fin Island,
W76-04151 9-09

Measurement of Small Strain-Rates Over Sh Time Periods,
W76-06184 9-13

HOLEMO, F. J.
An Economic Analysis of Georgia's Mari Charter Boat Fishing Industry,
W76-06624 9-13

HOLL, P.
The Destruction of Parasitic Resistant Stages Sludge by Irradiation with Low Accelerati Voltage Electrons (Die Vernichtu Parasitaerer Dauerformen im Klaerschlan Durch Bestrahlung mit Niederenergetisch Elektronen),
W76-03346 9-07

Disinfection of Sludge and Waste-Water by radiation with Electrons of Low Accelerati Voltage,
W76-09521 9-18

An Electron Accelerator with Electrons Low-Accelerating Voltage for Irradiati Sewage Sludge and Waste Water,
W76-09539 9-18

HOLLADAY, C. G.
Mesoscale Variability of Sea Surface Tempe tures,
W76-03739 9-08

HOLLADAY, G.
Plutonium Radionuclides in the Groundwat at Enewetak Atoll,
W76-08607 9-16

HOLLAHAN, J. R.
A Centrifugal Method for the Evaluation Polymer Membranes for Reverse Osmosis,
W76-04186 9-09

Water Purification Membranes and Method Preparation,
W76-03171 9-07

HOLLAND, D. F.
Back Bay National Wildlife Refuge. So Parallels in Implementing the Coastal Zo Management Act,
W76-13105 9-24

OLLAND, D. L.
Zinc Phosphate Granules in Tissue Surrounding the Midgut of the Barnacle Balanus Balanoides,
W76-10057 9-19 5C

OLLAND, G. J.
Development of a Gross Pollution Detector: Laboratory Studies,
W76-00609 9-02 5A

OLLAND, R. J.
Model Flood Plain Zoning Ordinance (Ohio),
W76-05227 9-11 6F

OLLAND, W. E.
Mixing Oil and Water: The Effect of Prevailing Water Law Doctrines on Oil Shale Development,
W76-07806 9-15 6E

OLLAND, W. N.
Flume Study of Knickpoint Development in Stratified Sediment,
W76-05162 9-11 2J

OLLAND, W. R.
On The Generation of Mesoscale Eddies and Their Contribution to the Oceanic General Circulation. I. A Preliminary Numerical Experiment,
W76-03734 9-08 2L

On the Generation of Mesoscale Eddies and Their Contribution to the Oceanic General Circulation. II. A Parameter Study,
W76-03735 9-08 2L

HOLLEMAN, D. G.
Relationship Between Potassium Intake and Radiocesium Retention in the Reindeer,
W76-10305 9-19 5C

HOLLEY, E. R.
Comparison of Single-Point Injections in Pipe Flow,
W76-12971 9-24 8B

HOLLEY, J. A.
Field Proven Techniques Improve Cementing Success,
W76-11909 9-22 8F

HOLLIES, J. I.
Standardization of Methods for the Determination of Traces of Some Volatile Chlorinated Aliphatic Hydrocarbons in Air and Water by Gas Chromatography,
W76-09287 9-17 5A

HOLLIMAN, R. B.
Effect of Halogens and Ozone on Schistosoma Ova,
W76-03252 9-07 5C

HOLLINGER, J. P.
Comparison of Sea-Ice Type Identification Between Airborne Dual-Frequency Passive Microwave Radiometry and Standard Laser/Infrared Technique,
W76-05388 9-11 7B

HOLLINGS, E. F.
Congress and a Law of the Sea Treaty,
W76-07346 9-14 6E

National Ocean Policy: Priorities for the Future,
W76-10591 9-20 6E

HOLLINGSWORTH, J. W.
Fish Toxicity of Dispersed Clay Drilling Mud Deflocculants,
W76-08896 9-17 5C

HOLLIS, H. D.
Gamma Irradiation for Sewage Treatment at US Army Facilities,
W76-09525 9-18 5D

HOLLMAN, K. W.
An Empirical Analysis of Water-Price Determinants in Small Municipalities,
W76-04936 9-10 6C

The Impact of Flooding Upon Land Values in the Big Black River Basin,
W76-11330 9-21 6C

HOLLMAN, R.
An Interdisciplinary Study of the Estuarine and Coastal Oceanography of Block Island Sound and Adjacent New York Coastal Waters,
W76-02050 9-05 7B

HOLLOWAY, R. W.
Sodium, Potassium, Calcium and Magnesium Content of Northwest Arkansas Rain Water in 1973,
W76-06379 9-13 2B

HOLLOWELL, J. R.
Ground-Water Resources of Lackawanna County, Pennsylvania,
W76-02483 9-05 4B

HOLLY, F. M. JR.
Time-Dependent Mass Dispersion in Natural Streams,
W76-10436 9-19 5B

Two-Dimensional Mass Dispersion in Rivers,
W76-04309 9-09 5B

HOLLYFIELD, N. W.
Masonboro Inlet, North Carolina, Movable-Bed Hydraulic Model Study, Effects of Temperature and Experimental Procedures,
W76-07466 9-15 8B

HOLM-HANSEN, O.
Amino Acid Uptake and Respiration by Marine Heterotrophs,
W76-08955 9-17 5C

Effects of Copper on Natural Marine Phytoplankton Communities,
W76-08947 9-17 5C

Improved Methodology for ATP Determination in Marine Environments,
W76-08958 9-17 5C

Primary Production and the Factors Controlling Phytoplankton Growth in the Antarctic Seas,
W76-08942 9-17 5C

HOLM, J. D.
Dealing with the Discharge Monitoring Report,
W76-06325 9-13 5G

HOLMBERG, J. D.
Drift Management in the Chalk Point Cooling Tower,
W76-04808 9-10 5B

HOLMES, P. W.
Anaerobic Treatment of Leachate with High Sodium Concentrations,
W76-09641 9-18 5D

HOLMES, W. F.
Nutrient Dynamics and Gas Production in Aquatic Ecosystems: The Effects and Utilization of Mercury and Nitrogen in Sediment-Water Microcosms,
W76-05246 9-11 5C

HOLMSTROM, B. K.
Low-Flow Characteristics and Mean Annual Discharge of North Branch Manitowoc River at Potter, Wisconsin,
W76-09147 9-17 7C

HOLOWAYCHUK, N.
Loess in Ohio in Relation to Several Possible Source Areas: I. Physical and Chemical Properties,
W76-06399 9-13 2J

Loess in Ohio in Relation to Several Possible Source Areas: II. Elemental and Mineralogical Composition,
W76-06400 9-13 2J

HOLSAPPLE, C.
Implementation of a Large Scale Water Quality Data Management System,
W76-10588 9-20 5A

Implementation of a Large Scale Water Quality Data Management System,
W76-12521 9-23 5G

HOLST, A. M.
Fast Replacement of a Flood-Damaged Interceptor,
W76-08240 9-16 8F

HOLSTEIN, T. O.
State Responsibility and the Law of International Watercourses,
W76-07811 9-15 6E

HOLT, C. C.
A General Solution for Linear Decision Rules: An Optimal Dynamic Strategy Applicable under Uncertainty,
W76-04543 9-10 6A

HOLT, C. H. JR.
Separation by Solvent Extraction,
W76-09061 9-17 5D

HOLT, S. J.
Ocean Space for Mankind: International Law of the Sea,
W76-00922 9-02 6G

HOLTAN, H. N.
Plot-Derived Parameters for Basin Computations,
W76-12438 9-23 2A

HOLTON, R.
Chlorinated Pesticides and Polychlorinated Biphenyls in Marine Species, Oregon/Washington Coast, 1972,
W76-08359 9-16 5A

HOLTZCLAW, K. M.
Bulk Density Sampler for Deep Soil Profiles,
W76-06171 9-13 7B

HOLZER, G.
Trace Analysis of Organic Volatiles in Water by Gas Chromatography-Mass Spectrometry with Glass Capillary Columns,
W76-03708 9-08 5A

HOLZER, T. L.
Application of Ground-Water Flow Theory to a Subsurface Oil Spill,
W76-09350 9-17 2L

HOLZGEN, H.
Apparatus for Separating Low-Density Liquid from a Relatively More Dense Liquid Substantially Immiscible Therewith,
W76-06473 9-13 5G

HOLZHEY, C. S.
Thick BH Horizons in the North Carolina Coastal Plain: I. Morphology and Relation to Texture and Soil Ground Water,
W76-06402 9-13 2G

Thick BH Horizons in the North Carolina Coastal Plain: II: Physical and Chemical Properties and Rates of Organic Additions from Surface Sources,
W76-06403 9-13 2G

HOMER, J.
Decisions for Delaware: Sea Grant Looks at Legal Aspects of OCS Development,
W76-06485 9-13 6E

HOMEYER, B.
Preparation of Polyester Jacketed Soil Columns as Penetration, Suction Plate and Groundwater Lysimeters, (In German),
W76-07272 9-14 2G

HOMOLA, A.
Determination of Aluminum in Paper Machine White Water by Potentiometric Titration with Fluoride Ion,
W76-12482 9-23 5A

HONARVAR, S.
Effect of Drilling Fluid Components Mixtures on Plants and Soils,
W76-08897 9-17 5C

HONDA, T.
The Effects of Ozone Deodorization Equipment for the Sewage Odor (Gesui shuki ni Taisuru Ozon Dasshusochi no Koka),
W76-01771 9-04 5D

HONDA, Z.
Semipermeable Membrane and Process for the Preparation Thereof,
W76-09864 9-18 3A

HONEY, W. D. JR.
The Willamette River Greenway: Cultural and Environmental Interplay,
W76-01805 9-04 6G

HONG, J-C. S.
The Influence of Suspended Sediment on the Reaeration of Uniform Streams,
W76-02934 9-06 5G

HONGVE, D.
Hydrographical Features of Nordbytjernet, A Manganese-Rich Meromictic Lake in SE Norway,
W76-06752 9-13 5C

HONN, K. V.
Prototype Design for a Closed Marine System Employing Quaternary Water Processing,
W76-04924 9-10 5G

HOOD, J. W.
Seepage Study of the Rocky Point Canal and the Grey Mountain-Pleasant Valley Canal Systems, Duchesne County, Utah,
W76-11682 9-22 4A

HOOKS, D. B.
Disposal and Utilization of Waste Kiln Dust From Cement Industry,
W76-00686 9-02 5D

HOOPER, L. E. III.
Water Action Powered Pump,
W76-13138 9-24 8C

HOOPES, L.
Flooding as the Result of Hurricane Agnes, and its Effect on a Macrobenthic Community in an Infertile Headwater Stream in Central Pennsylvania,
W76-06748 9-13 5C

HOOT, F. M.
Ultraviolet Disinfection of Activated Sludge Effluent Discharging to Shellfish Waters,
W76-12862 9-24 5D

HOOVER, D. B.
Geothermal Investigations in Idaho: Part 2. An Evaluation of Thermal Water in the Bruneau-Grand View Area, Southwest Idaho,
W76-02655 9-06 4B

HOPKINS, D. R.
Environmental Assessment of Marine Outfalls,
W76-11615 9-21 5E

HOPKINS, J. K.
Water Quality Management Planning for the Roaring Fork River Basin in Western Colorado,
W76-02563 9-06 5G

HOPKINS, T. L.
Chlorinated Hydrocarbons in Mesopelagic Fishes of the Eastern Gulf of Mexico,
W76-08434 9-16 5C

Phytoplankton of the Tampa Bay System, Florida,
W76-07973 9-15 5C

HOPKIRK, R. J.
Meteorological Influences of Atmospheric Cooling Systems as Projected in Switzerland,
W76-04814 9-10 5B

HOPP, R. A.
Water and Watercourses--Federal Jurisdiction--Federal Common Law Determines Ownership of Re-Exposed Navigable River Beds--Bonelli Cattle Co. V. Arizona,
W76-03919 9-08 6E

HOPPE, P.
Pesticide and PCB Residue in Organs of Wild Animals as Indicators of Environmental Contamination, (In German),
W76-09922 9-18 5A

HOPSON, N. E.
Nitrification Rate in Biological Processes,
W76-00738 9-02 5D

Outlooks for the Future of Deep Well Disposal,
W76-12370 9-23 5E

HOPWOOD, A. P.
Protein and Fat Recovery from Effluents,
W76-08172 9-16 5D

HORAK, W. F.
A Bacterial Water Quality Investigation of Canyon Lake,
W76-02232 9-05 5B

HORAN, R. E. JR.
Pollution Control System for Water Supply,
W76-05530 9-12 5F

HORBACH, W.
Investigations on the CO2 Balance of Submerged Higher Water Plants in Running Water by Means of a Mobile Laboratory for Infrared Gas Analysis, (In German),
W76-07312 9-14 2I

HORDON, R. M.
Water Quality Monitoring and River Ba Planning: A Critique and Some Recommend tions,
W76-02378 9-05

HORI, S.
Survey Analyses for Petroleum Deriv Hydrocarbons in the Ocean,
W76-10374 9-19

HORII, R. S.
Clean Air Equals Dirty Water,
W76-07228 9-14

HORII, Y.
The Control of Waste Water Flow of Ne Town into the Treatment Plant (Danc gesuishorijo no ryunyusui no seigyo ni kansu kenkyu),
W76-07012 9-14

The Forecasting, of Inflow Variation into t Waste Water Treatment Facility in the Ne Town, (In Japanese),
W76-01449 9-03

HORIKOSHI, T.
Studies of Flocculation and Sedimentati Treatment of Pulp Mill Effluents: An Approa of a Closed System Using Calcium Alumina Hydrates (In Japanese),
W76-09284 9-17

HORLING, H.
Removal of Phosphates and Metals fro Sewage Sludge,
W76-06375 9-13

HORLINGS, H.
Removal of Phosphates and Metals fro Sewage Sludges,
W76-01100 9-03

HORN, K.
Sanitary-Virological Study of Surface Water (In Russian),
W76-02221 9-05

HORN, M. H.
Abundance, Diversity and Seasonality Fishes in Colorado Lagoon, Alamitos Bay California,
W76-07482 9-15

HORN, R. E.
Process for Recovering Tin Salts from th Waste Rinse Water of a Halogen Tin Platin Process,
W76-05025 9-11

HORNBACK, K. E.
Toward a Quantitative Measure of the Qualit of Life,
W76-05363 9-11

HORNBECK, J. W.
Streamflow Response to Forest Cutting an Revegetation,
W76-04698 9-10

HORNBERGER, G. M.
Atmospheric Reaeration in a River Usin Productivity Analysis,
W76-03115 9-07

Evaluating a Mathematical Model for Predict ing Lake Eutrophication,
W76-02370 9-05

A Method for Monitoring Eutrophication i Rivers,
W76-06803 9-14

Rookery Bay Land Use Studies, Environmental Planning Strategies for the Development of a Mangrove Shoreline, Study No. 10, Growth and Land Use, Study No. 11, Economic Implications of Land Development Alternatives, Study No. 12, A Simulation Modeling Approach to the Study of Development Alternatives,
W76-05009 9-11 5G

Water Transport through Plant Tissues in the Presence of a Diffusable Solute,
W76-04243 9-09 2I

ORNBURG, C. D.
Commercial Membrane Desalting Plants: Data and Analysis,
W76-08370 9-16 3A

ORNE, A. J.
Algal Nitrogen Fixation in Californian Streams: Diel Cycles and Nocturnal Fixation,
W76-05463 9-11 5C

Algal Nitrogen Fixation in Californian Streams: Seasonal Cycles,
W76-05639 9-12 5C

ORNER, G. L.
Internalizing Agricultural Nitrogen Pollution Externalities: A Case Study.
W76-04563 9-10 5G

ORNER, R. G.
Statistical Summaries of Indiana Streamflow Data,
W76-11409 9-21 7C

ORNER, R. W.
The River Thames Flood Defence Barrier,
W76-03800 9-08 4A

ORNEY, L. F.
Characterization and Treatment of Brine Wastewaters From the Cucumber Pickle Industry,
W76-10805 9-20 3E

ORNIG, L.
Investigations on the CO2 Balance of Submerged Higher Water Plants in Running Water by Means of a Mobile Laboratory for Infrared Gas Analysis, (In German),
W76-07312 9-14 2I

ORNING, D. P.
Chlorinated Resin Intended for Water Treatment,
W76-09060 9-17 5F

ORNING, H. M.
The Role of Effective Irrigation Water Management at the Farmer's Field,
W76-01879 9-04 3F

ORNING, R. H.
Biological Treatment of Dyes,
W76-05737 9-12 5D

Control System Treats Dye Plant Brine Waste,
W76-04054 9-09 5D

ORNUNG, W. L.
Petroleum Processing Wastes, (Literature Reviews),
W76-12415 9-23 5D

OROWITZ, A.
The Geochemistry of Sediments From the Northern Reykjanes Ridge and the Iceland - Faroes Ridge,
W76-01097 9-03 2K

HOROWITZ, J.
The Use of ERTS Imagery in Reservoir Management and Operation,
W76-08537 9-16 4A

HORRALL, R. M.
Experimental Confirmation of the Olfactory Hypothesis with Homing, Artificially Imprinted Coho Salmon (Oncorhynchus Kisutch),
W76-08439 9-16 5C

HORRELL, D. R.
Reverse Osmosis Pilot Plant Studies for the Purification and Reuse of Effluent from a Sanitary Waste Treatment Plant,
W76-11267 9-21 5D

HORSEFIELD, D. R.
Wastewater Resources in North Central Texas,
W76-12652 9-23 5G

HORST, T. J.
The Assessment of Impact Due to Entrainment of Ichthyoplankton,
W76-07493 9-15 5C

HORSTKOTTE, G. A.
Lime Recovery and Reuse in Primary Treatment,
W76-05785 9-12 5D

HORSTKOTTE, G. A. JR.
Computer Controls Put 'Waste' Water to Good Use,
W76-03323 9-07 5D

HORSTMANN, U.
Eutrophication and Mass Production of Blue-Green Algae in the Baltic,
W76-01941 9-04 5C

HORTON, G. T.
Legal Approaches to Control Runoff and Sedimentation: A Case Study of Georgia,
W76-09747 9-18 4D

HORTON, M. L.
Water Movement Within the Root Zone of Irrigated and Nonirrigated Grain Sorghum,
W76-05994 9-12 2G

HORVATH, E.
Bacterial Flora of Saline Aquifers,
W76-01254 9-03 5A

HORVATH, I.
Application of Similitude and Modeling in Waste Water Technology (Anwendung Der Aehnlichkeit Und Modellierung In Der Abwasser-Technologie),
W76-07543 9-15 5D

Ultra-High Rate Filtration Problems,
W76-00234 9-01 5D

HORVATH, K.
On the Methods of Determining the Sulfate Content of Water, and the Description of a New Photometric Method, (In Hungarian),
W76-12270 9-23 5A

HORVATH, R.
The Feasibility of Oil-Pollution Detection and Monitoring from Space: Examples Using ERTS-1 and Skylab Data,
W76-13181 9-24 5A

HOSKING, P. J.
The Erodibility of Pumice Soils of the North Island, New Zealand,
W76-09787 9-18 4D

HOSKING, R. J.
Seepage Flow Through Homogeneous Soil into a Row of Drain Pipes,
W76-10919 9-20 4A

HOSLER, C. L.
Influence of the Choice of the Plume Diffusion Formula on the Salt-Deposition-Rate Calculation,
W76-04829 9-10 5B

HOSOKAWA, J.
Sequential Treatment of Kraft Pulp Washing Wastewater by Pilot Plant: Activated Sludge Treatment, Lime Treatment, and Activated Carbon Adsorption Treatment (In Japanese),
W76-10854 9-20 5D

HOSS, D. E.
Biomass of Zooplankton in the Newport River Estuary and the Influence of Postlarval Fishes,
W76-06153 9-13 2L

Effects of Temperature, Copper and Chlorine on Fish During Simulated Entrainment in Power-Plant Condenser Cooling Systems,
W76-08878 9-17 5C

HOSSNER, L. R.
Solution Phosphorus Concentration and Growth of Rice (Oryza Sativa L.) in Flooded Soils,
W76-10122 9-19 3F

HOSTE, J.
Neutron Activation Analysis for Bulk and Trace Elements in Urine,
W76-02890 9-06 5A

HOTCHKISS, W. R.
Map Showing Flood-Prone Areas, Colorado Springs-Castle Rock Area, Front Range Urban Corridor, Colorado,
W76-00668 9-02 7C

Map Showing Flood-Prone Areas, Greater Denver Area, Front Range Urban Corridor, Colorado,
W76-01186 9-03 2E

HOTTA, H.
The Radiation-Induced Degradation of Azo Dyes in Aqueous Solutions,
W76-04790 9-10 5D

HOU, H. S.
Hydraulic Constants of Tidal Entrances, II: Stability of Long Island Inlets,
W76-01836 9-04 2L

Movable-Bed Model Investigation of Taichung Harbor, Taiwan, Rep. of China,
W76-10427 9-19 2L

HOUCK, D. H.
Higher Speed May Lower Problems,
W76-03692 9-08 5D

HOUDESHELL, J.
Mathematical Modelling of an Aquatic Ecosystem: I,
W76-01195 9-03 5B

HOUGH, H. W.
Crust Strength and Cracking: Part I. Strength,
W76-00522 9-02 2G

HOULT, D. P.
Oil in the Arctic,
W76-09902 9-18 5C

HOUNAM, C. E.
Drought and Agriculture,
W76-06265 9-13 2B

HOUSE, W. B.
Phenoxy Herbicide Residues and Their Persistence,
W76-11151 9-21 5B

HOUSTON, C. E.
Some Factors Influencing Groundwater Development and Use for Agriculture,
W76-00813 9-02 4B

HOUSTON, C. W.
Biodegradation of Aquatic Pollutants,
W76-00821 9-02 5B

HOUSTON, J. E.
Evaporation Apparatus of Special Material,
W76-06482 9-13 5D

HOUSTON, J. R.
Effect of Source Orientation and Location in the Aleutian Trench on Tsunami Amplitude Along the Pacific Coast of the Continental United States,
W76-07464 9-15 8B

Type 16 Flood Insurance Study: Tsunami Predictions for Monterey and San Francisco Bays and Puget Sound,
W76-07456 9-15 6F

HOUSTON, R. S.
Analysis of ERTS-1 Imagery of Wyoming and its Application to Evaluation of Wyoming's Natural Resources,
W76-08535 9-16 4A

HOUSTON, W. R.
Drought Resistance of Blue Grama as Affected by Atrazine and N. Fertilizer,
W76-13122 9-24 2I

HOUVENAGHEL, G. T.
The Distribution of Nutrient Salts in the Morlaix Bay (Finistere, France): The Role of Benthic Algae, (In French),
W76-11583 9-21 5B

HOVEY, W. H.
Biological Treatment of Winery Stillage,
W76-04731 9-10 5D

HOVIOUS, J. C.
Chemicals and Allied Products (Literature Reviews),
W76-12412 9-23 5D

HOWARD, F.
Handling and Disposal of Bleach Plant Effluents,
W76-11383 9-21 5D

HOWARD, F. A.
Recovery of Solvents for the Paint and Allied Industries,
W76-02976 9-06 5D

HOWARD, G.
Controlling Solar Light and Heat in a Forest by Managing Shadow Sources,
W76-12241 9-23 4A

HOWARD, H. H.
Seasonal Variation of Manganese in a Eutrophic Lake,
W76-01142 9-03 5C

HOWARD, J. F.
Evaluation Procedure of Critical Factors of Mining Impact on Ground Water Resources,
W76-06941 9-14 5G

HOWARD, P. H.
Preliminary Environmental Hazard Assessment of Chlorinated Naphthalenes, Silicones, Fluorocarbons, Benzenepolycarboxylates, and Chlorophenols,
W76-00326 9-01 5C

Review and Evaluation of Available Techniques for Deterimining Persistence and Routes of Degradation of Chemical Substances in the Enviroment,
W76-12865 9-24 5A

HOWARD, S. M.
Evaluation of Airborne Raindrop Size-Distributions Measurements for Improving Radar Rainfall Estimates,
W76-06608 9-13 2B

HOWARD, T. E.
Toxicity: Research and Regulation,
W76-11374 9-21 5C

HOWE, R. H. L.
Removal of Faecal Coliform from Waste Water by Proper Aerobic Biological Treatment,
W76-09171 9-17 5D

HOWE, R. S.
Development of Residuals Management Strategies,
W76-12581 9-23 5G

Development of Residuals Management Strategies: An Executive Summary,
W76-13054 9-24 5G

A Land Capability Model for the Lower Lake Monroe Watershed,
W76-02002 9-05 4A

HOWELER, R. H.
Iron-Induced Oranging Disease of Rice in Relation to Physicochemical Changes in a Flooded Oxisol,
W76-04339 9-09 5C

HOWELL, F. G.
Ecology of Artificially Heated Streams, Swamps and Reservoirs on the Savannah River Plant, the Thermal Studies Program of the Savannah River Ecology Laboratory,
W76-08870 9-17 5C

Effect of Thermal Effluents from Nuclear Reactors on Species Diversity of Aquatic Insects,
W76-03492 9-07 5C

Thermal Ecology of Dragonflies in Habitats Receiving Reactor Effluent,
W76-08881 9-17 5C

HOWELL, H. H.
Some of the Effects of Domestic Sewage Discharge into Hickman and Jessamine Creeks in Jessamine County, Kentucky,
W76-05841 9-12 5B

HOWELL, J. D. JR.
Property Tax Laws of Texas,
W76-07805 9-15 6E

HOWELL, J. H.
Effects of 3-Trifluoromethyl-4-Nitrophenol (TFM) on Developmental Stages of the Sea Lamprey,
W76-08064 9-15 5C

HOWELL, M. P.
Secondary Impacts of Transportation a Wastewater Investments: Research Results,
W76-02757 9-06

HOWELL, T. A.
Effects of Inundation Period on Seedl Growth,
W76-01084 9-03

Irrigation Timing by the Stress Day In Method,
W76-01082 9-03

Optimization of Water Use Efficiency Un High Frequency Irrigation: II System Simu tion and Dynamic Programming,
W76-01083 9-03

Trickle and Sprinkler Irrigation of Gr Sorghum,
W76-13003 9-24

Trickle Irrigation Lateral Design,
W76-01568 9-04

Trickle Irrigation with Water of Differ Salinity Levels,
W76-08550 9-16

HOWELLS, B. B.
Reorientation of Urban Water Resour Research, Executive Summary,
W76-06554 9-13

HOWELLS, D. H.
Reorientation of Urban Water Resour Research, Final Report,
W76-06553 9-13

HOWES, B. L.
Interactive Effects of Predation Pressure Insecticide (Temefos) Toxicity on Populati of the Marsh Fiddler Crab Uca Pugnax,
W76-09114 9-17

HOWITT, F.
Saline Ground Waters in the Carbonifer Rocks of the English East Midlands in Relat to the Geology,
W76-00488 9-01

HOWLAND, W. G.
Vegetation Mapping in Lake Champlain W lands,
W76-11111 9-21

HOWMILLER, R. P.
Composition of the Oligochaete Fauna of C tral Lake Michigan,
W76-11323 9-21

HOY, R. D.
Field Study of Evaporation--Catalogue of D for Phase I,
W76-03724 9-08

HOYLAND, G.
The Effect of Finite Channel Width on Conc tration Polarisation Reverse Osmosis Un Laminar Flow Conditions,
W76-00642 9-02

HOYLE, D. L.
Controlling PH in Waste Streams: Part Designing The Treatment Facility,
W76-05298 9-11

Controlling PH in Waste Streams: Part II- taining Consistent Results,
W76-05299 9-11

RBACEK, J.
On the Possibilities of Averaging the Seasonal Pattern in Kjeldahl Nitrogen in a Group of Water Bodies,
W76-06019 9-12 5B

RONCICH, M. J.
Perforated-Pipe Water Intake for Fish Protection,
W76-08137 9-16 8I

Undistorted Movable-Bed Model Study for a River and Power Plant Intake System,
W76-09971 9-18 8B

RUBY, T.
Blooms of Surf-Zone Diatoms Along the Coast of the Olympic Peninsula, Washginton. V. Environmental Conditions Associated with the Blooms (1971 and 1972),
W76-01160 9-03 5C

RUDEY, S. E.
Water Pollution Aspects from Waste Drilling Mud Disposal in Canada's Arctic,
W76-09334 9-17 5G

RUTFIORD, B.
The Fate of Turpentine in Aerated Lagoons,
W76-05109 9-11 5D

RUTFIORD, B. F.
Organic Compounds in Pulp Mill Lagoon Discharge,
W76-03631 9-08 5A

SIAO, G. C.
(Optimal Design for Wave Spectrum Estimates,
W76-02705 9-06 2L

SIEH, F. S.
Changes in Storm Hydrographs After Road Building and Clear-Cutting in the Oregon Coast Range,
W76-02937 9-06 4C

SIEH, J. J. C.
Steady-State Method of Measuring Unsaturated Hydraulic Conductivity,
W76-09924 9-18 2G

SU, D. Y.
Alum Sludge from Water Plant Conditions Sewage Sludge,
W76-09163 9-17 5F

SU, K. H.
Motionless Mixers Improve Oxygen Transfer Efficiencies, Part I,
W76-01556 9-04 5D

SU, P. H.
Two-Step Phosphate Removal from Solution Using Aluminum Salts,
W76-09182 9-17 5D

SU, Y. Y.
Preliminary Assessment of Systems for Deriving Liquid and Gaseous Fuels from Waste or Grown Organics,
W76-12967 9-24 5D

SUEH, Y.
On The Possibilities of Coastal, Mid-Shelf, and Shelf Break Upwelling,
W76-03731 9-08 2L

UANG, C. H.
Treatment of Combined Sewer Overflows by Dissolved Air Flotation,
W76-02074 9-05 5D

HUANG, C. S.
Nitrification Rate in Biological Processes,
W76-00738 9-02 5D

HUANG, C. Y.
Method for Treating Fouled Water,
W76-10467 9-19 5D

HUANG, E. Y.
Operational Systems for Snow Removal and Ice Control: A Background/Resource Paper for the Upper Great Lakes University Consortium for Transportation Research,
W76-01591 9-04 4A

HUANG, J. Y. C.
Selecting Aerators for Wastewater Treatment,
W76-04786 9-10 5D

HUAULT, D.
Computation of Economic Data Concerning the Exploitation of Groundwater on a Regional Scale,
W76-00819 9-02 4B

HUBBARD, L. L.
Hydrology of Malheur Lake, Harney County, Southeastern Oregon,
W76-03906 9-08 4A

HUBBELL, D. W.
Discharge and Flow Distribution, Columbia River Estuary,
W76-02143 9-05 5B

HUBER, C. V.
Combined Treatment of Leather Tanning and Municipal Wastes at Grand Haven, Michigan,
W76-08294 9-16 5D

HUBER, R. K.
Operation of the 3-Stage Flash Devices Plant, 1969-1972,
W76-07111 9-14 3A

HUBER, W. C.
Urban Stormwater Management Modeling and Decision-Making,
W76-00695 9-02 5D

Urban Stormwater Management Modeling and Decision-Making,
W76-11599 9-21 5D

HUBERT, P.
Construction and Utilization of Complex Mathematical Models in the Planning of the Optimal Development of Large Hydrographic Systems and River Basins,
W76-12566 9-23 4A

HUBSCHMANN, W. G.
Discussion of Possible Effects Due to Mixing of Radioactive and Thermal Releases to the Atmosphere from Nuclear Power Plants,
W76-09502 9-18 5A

HUCK, M. G.
Leaf Water Potential and Moisture Balance--Field Data,
W76-13011 9-24 2I

HUCK, R. W.
Prevention and Control of Culvert Icing, Summary Report on Studies FY 1966-70,
W76-06193 9-13 8A

HUCKABEE, J. W.
Acid Rock in the Great Smokies: Unanticipated Impact on Aquatic Biota of Road Construction in Regions of Sulfide Mineralization,
W76-03770 9-08 5C

HUDDLESTON, J. H.
Sediment Yields from Roadsides: An Application of the Universal Soil Loss Equation,
W76-12206 9-23 4C

HUDES, G. M.
Compilation and Analysis of Water Quality Rights and Responsibilities in Hawaii,
W76-10001 9-19 5G

HUDSON, D. E.
Seismic Instrumentation of Dams,
W76-05667 9-12 8D

HUDSON, E. A.
Energy Policy and Economic Growth,
W76-09606 9-18 6A

HUDSON, H. E.
Velocity Gradient Calibration of Jar-Test Equipment,
W76-03695 9-08 5A

HUDSON, H. H.
Water for Wyoming's Coal,
W76-00090 9-01 3B

HUDSON, J. A.
Developments in Sewage Treatment at Leeds,
W76-03679 9-08 5D

HUDSON, J. D.
Ground-Water in New Mexico, 1973,
W76-06460 9-13 7C

Ground-Water Levels in New Mexico, 1974,
W76-11073 9-20 2F

HUDSON, J. F.
Highway and Sewer Impacts on Urban Development,
W76-02717 9-06 5C

HUDSON, J. W.
Flood Frequency of Mississippi Streams,
W76-11083 9-20 4A

HUDSON, P. L.
The Influence of Sieve Mesh Size Selectivity on Benthic Invertebrate Indices of Eutrophication,
W76-04911 9-10 5C

HUDSON, R. Y.
Reliability of Rubble-Mound Breakwater Stability Models,
W76-07459 9-15 8B

Reliability of Rubble-Mound Breakwater Stability Models,
W76-10461 9-19 8B

Scale Effects in Rubble-Mound Breakwater Stability Models Caused by Variations in the Specific Gravity of the Armor Units and Underlayer Stones,
W76-07465 9-15 8B

HUDSON, W. Q.
Legal Approaches to Control Runoff and Sedimentation: A Case Study of Georgia,
W76-09747 9-18 4D

HUEBL, E.
The Phragmitetea and Molinietalia Associations in the Thaya, March and Danube River Basins of Austria, (In German),
W76-09076 9-17 4A

HUETTIG, G. W.
Model Development and Systems Analysis of the Yakima River Basin, Economic Modeling,
W76-04515 9-10 6A

HUFF, D. D.
An Evaluation of Two Hydrograph Separation Methods of Potential Use in Regional Water Quality Assessment,
W76-12691 9-24 5G

HUFF, F. A.
The Distribution of Heavy Rainfall in a Major Urban Area,
W76-09734 9-18 2B

Hydrometeorology of Heavy Rainstorms in Chicago and Northeastern Illinois, Phase I - Historical Studies,
W76-11875 9-22 2B

A Hypothesis for Urban Rainfall Anomalies,
W76-11744 9-22 2B

Urban Effects on the Distribution of Heavy Convective Rainfall,
W76-06680 9-13 4C

HUFFORD, G. L.
Some Characteristics of the Beaufort Sea Shelf Current,
W76-03853 9-08 2L

Tar Ball Sampling in the Western North Atlantic,
W76-10380 9-19 5B

HUFHAM, J. B.
Evaluating the Membrane Fecal Coliform Test by Using Escherichia Coli as the Indicator Organism,
W76-12175 9-23 5A

HUFSCHMIDT, M. M.
Management of Environmental Quality: Observations on Recent Experience in the United States and the United Kingdom,
W76-05659 9-12 5G

Reorientation of Urban Water Resources Research, Executive Summary,
W76-06554 9-13 6B

Reorientation of Urban Water Resources Research, Final Report,
W76-06553 9-13 6B

HUGES, L. A.
Guidelines for Flash Flood and Small Tributary Flood Prediction,
W76-03417 9-07 4A

HUGGETT, R. J.
Distribution of Copper and Zinc in Oysters and Sediments from Three Coastal-Plain Estuaries,
W76-10279 9-19 5C

Identification of Hydrocarbons in an Extract from Estuarine Water Accomodated No. 2 Fuel Oil,
W76-10397 9-19 5A

An Instrument with Internal Calibration for Monitoring Chlorine Residuals in Natural Waters,
W76-10028 9-19 5A

HUGHES, B. D.
A Comparison of Four Samplers for Benthic Macroinvertebrates Inhabiting Coarse River Deposits,
W76-01909 9-04 7B

HUGHES, D. A.
Some Current Directed Movements of Macrobrachium Acanthurus (Wiegmann 1836) (Decapoda, Palaemonidae) under Laboratory Conditions,
W76-12707 9-24 2L

HUGHES, D. E.
The Microbial Degradation of Oil in the Sea,
W76-11101 9-21 5B

HUGHES, D. M.
Hydrologic Records for Lake County, Florida, 1973-74,
W76-11414 9-21 7C

HUGHES, G. H.
Hydrology of the Three Sinkhole Basins in Southwestern Seminole County, Florida,
W76-08572 9-16 4A

Perspective on Use of Fresh Water for Cooling Systems of Thermoelectric Powerplants in Florida,
W76-07596 9-15 3E

HUGHES, G. M.
Pollution Effects on Surface Waters and Ground Waters, (Literature Review),
W76-10104 9-19 5C

HUGHES, H. R.
Lake Ellesmere, Canterbury, New Zealand: A Review of the Lake and its Catchment,
W76-06762 9-13 5C

HUGHES, J. L.
Evaluation of Ground-Water Degradation Resulting from Waste Disposal to Alluvium Near Barstow, California,
W76-02480 9-05 5B

HUGHES, J. M.
Epidemiology of Waterborne Disease in the United States 1971-1973,
W76-03426 9-07 5F

HUGHES, L. A.
The Black Hills-Rapid City Flood of June 9-10, 1972: A Description of the Storm and Flood,
W76-02967 9-06 2E

HUGHES, M. W.
The Use of Environmental Tritium to Estimate Recharge to a South-Australian Aquifer,
W76-00896 9-02 2F

HUGHES, R.
Behavioral Impairment Produced by Exposure to Subclinical Amounts of Methylmercury Chloride,
W76-09037 9-17 5C

HUGHES, T. C.
Capability of Integer Programming Algorithms in Solving Water Resource Planning Problems,
W76-05183 9-11 6A

HUGHES, T. D.
Salt Tolerance and Suitability of Various Grasses for Saline Roadsides,
W76-08764 9-17 3C

HUGHES, W. C.
Runoff Frequency Procedure for Synthetic Hydrograph Development,
W76-09733 9-18 2A

HUGUENIN, J. E.
Experiences with a Marine Aquaculture-Tertiary Sewage Treatment Complex,
W76-03566 9-08 5D

Heat Exchangers for Use in the Culturing of Marine Organisms,
W76-10990 9-20 5G

Social, Political, Regulatory and Marketi
Problems of Marine Waste-Food Recycli
Systems,
W76-03563 9-08

Social, Political, Regulatory and Marketi
Problems of Marine Waste-Food Recycli
Systems,
W76-10991 9-20

The Use of Power Plant Waste Heat in Mari
Aquaculture,
W76-10992 9-20

HUILGOL, N. V.
Hydrogen Peroxide as a Source of Oxyg
Supply in the Transport of Fish Fry,
W76-01931 9-04

HUISMAN, P. H.
Method and Apparatus for Treating Sewage,
W76-07436 9-14

HULATA, G.
Genetic Differences in Susceptibility to T
Diseases Among Strains of the Common Carp
W76-06764 9-13

HULINGS, N. C.
Physical Factors Controlling Abundance
Meiofauna on Tidal and Atidal Beaches,
W76-10069 9-19

HULL, C. H. J.
Implementation of Interstate Water Qual
Plan,
W76-00083 9-01

Implementation of Interstate Water Qual
Plan,
W76-06201 9-13

HULL, J. A.
Annual Peak Discharges from Small Draina
Areas in Montana Through September 1975,
W76-08049 9-15

HULL, J. E.
Summary of Hydrologic Data Collected Duri
1974 in Dade County Florida,
W76-09135 9-17

HULL, W. V.
Tidal Datums and Mapping Tidal Boundaries,
W76-03625 9-08

HULLS, J. R.
Waste Purification System,
W76-09431 9-18

HULSBERGEN, C. H.
Origin, Effect and Suppression of Seconda
Waves,
W76-09878 9-18

HULT, J. L.
Applicability of ERTS to Antaractic Icebe
Resources,
W76-02048 9-05

HULT, M. F.
Water Resources of the Cedar Riv
Watershed, Southeastern Minnesota,
W76-07117 9-14

HULTBERG, H.
Oligotrophication - A Self-Accelerating Proce
In Lakes Subjected to Excessive Supply
Acid Substances,
W76-11403 9-21

LTMAN, B.
Chemical Precipitation of Wastewaters with Lime (Kemisk fallning av avloppsvatten med alk),
W76-05585 9-12 5D

MENICK, M. J. JR.
Improving Mercury (II) Removal by Activated Carbon,
W76-05330 9-11 5D

MENIK, F. J.
Land Disposal of Wastewater,
W76-11227 9-21 5E

Lysimeter Studies with Long Term Application of Swine Lagoon Effluent,
W76-11055 9-20 5B

Overland Flow Pretreatment of Wastewater,
W76-11775 9-22 5D

Swine Production and Waste Management: State-of-the-Art,
W76-07178 9-14 5D

Total Waste Management for a Large Swine Production Facility,
W76-07181 9-14 5D

Transformations of Swine Wastewater in Laboratory Soil Profiles,
W76-01387 9-03 5B

MM, H. J.
Sphaeroma Terebrans: A Threat to the Mangroves of Southwestern Florida,
W76-00998 9-02 5C

MMADI, K. B.
Soluble Salts and Nitrate Distribution in Irrigated Lettuce Beds,
W76-08763 9-17 3C

MMEL, S. G.
A New Device For Subsampling Plankton Samples,
W76-09396 9-17 7B

MMELL, J. D.
Method And Apparatus For Disposal Of Liquid Waste,
W76-02781 9-06 5E

MMELS, D. R.
A Digitized Radar for Precipitation Measurements and Applications to Hydrology,
W76-02635 9-06 2B

MPHERYS, A. S.
Automated Valves for Surface Irrigation Pipelines,
W76-01120 9-03 4A

MPHESON, C.
Applications of Electro-Osmosis to Ground-Water Flow Problems,
W76-03362 9-07 2F

MPHREY, H. E. B.
Liquid Purifying Process,
W76-05528 9-12 5D

MPHREY, M. F.
Carbon Wastewater Treatment Process,
W76-09441 9-18 5D

MPHREYS, H. W.
Agricultural Engineering Water Resources Information Retrieval of Published Literature,
W76-11691 9-22 10D

Hydraulic Model Study of a Settling Basin,
W76-00022 9-01 8B

HUMPHREYS, J.
Measuring Our Water Supply,
W76-03597 9-08 6D

HUMPHRIES, J.
A Fourth Dimension--Recreation and Amenity,
W76-00644 9-02 6B

HUMPHRIES, W. K.
Investigation of Roadway Drainage as Related to the Performance of Flexible Pavements,
W76-08534 9-16 8B

HUNDAL, M. S.
Improving the Statistical Reliability of Stream Heat Assimilation Prediction,
W76-02271 9-05 5B

HUNDAL, S.S.
Drainage System Effects on Physical Properties of a Lakebed Clay Soil,
W76-09259 9-17 2G

HUNDLEY, N. JR.
Water and the West: The Colorado River Compact and the Politics of Water in the American West,
W76-00384 9-01 6E

HUNG, Y. T.
Comparison of Warburg and Marais Methods of Determining Oxygen Uptake Rate Constants,
W76-09189 9-17 5A

Nitrification Studies of Ship Channel Waters,
W76-09453 9-18 5D

HUNKINS, K.
Internal Wave Dispersion Calculated Using the Thomson-Haskell Method,
W76-01275 9-03 2L

HUNN, J. B.
Renal Excretion in Coho Salmon (Oncorhynchus Kisutch) After Acute Exposure to 3-Trifluoromethyl-4-Nitro-Phenol,
W76-03033 9-07 5C

Urinary Excretion of Quinaldine by Channel Catfish,
W76-00439 9-01 5C

HUNT, A. S.
Sediment Properties, Lake Champlain: 1971-1975,
W76-09763 9-18 5B

HUNT, B. W.
Graphical Calculation of Aquifer Transmissivities in Northern Caterbury, New Zealand,
W76-04102 9-09 2F

HUNT, E.
Naquadat Users Manual,
W76-04156 9-09 7C

HUNT, P. G.
Overland Flow Treatment of Wastewater - A Feasible Approach,
W76-11235 9-21 5D

HUNT, W. G.
Acid Treated Cationic Starch in the Flocculation and Dewatering of Sludge,
W76-11214 9-21 5D

HUNTER, E. J.
Pop-up Sprinkler Head Having Flow Adjustment Means,
W76-07442 9-14 3F

HUNTER, J. R.
Culture and Growth of Northern Anchovy, Engraulis Mordax Larvae,
W76-08432 9-16 2L

A Note on Aquadratic Friction in the Presence of Tides,
W76-03375 9-07 2L

HUNTER, J. V.
Assessing Unrecorded Organic Pollution from Agricultural, Urban, and Wooded Lands,
W76-01264 9-03 5B

Future Problems in Sludge Production and Handling Systems,
W76-07244 9-14 5E

Oxidation of Lake and Impoundment Hypolimnia,
W76-04016 9-09 5C

HUNTER, L.
Determination of Hydrocarbons in Marine Organisms and Sediments by Thin Layer Chromatography,
W76-10407 9-19 5A

Identification and Potential Biological Effects of the Major Components in the Seawater Extract of a Bunker Fuel,
W76-03781 9-08 5A

Identification and Potential Biological Effects of the Major Components in the Seawater Extract of a Bunker Fuel,
W76-11099 9-20 5A

HUNTER, R. B.
Effects of Water Stress on Leaf Respiration, Transpiration Rates in the Dark and Cuticular Resistance to Water Vapor Diffusion of Two Corn Inbreds,
W76-06266 9-13 2D

HUNTOON, P. W.
Groundwater Geology of Southwest Nebraska Ground Water Conservation District,
W76-00005 9-01 4B

Hydrology of the Madison Formation and its Potential use for Water Supply for Energy Development,
W76-09757 9-18 2F

HUQ, M. F.
An Experiment on the Feeding of Fry of Catfish Heteropneustes Fossilis,
W76-08575 9-16 2I

HURR, R. T.
Hydrology of the South Platte River Valley, Northeastern Colorado,
W76-03398 9-07 4B

HURSEY, P. A.
Chloramine-T for the Control of Ichthyophthirius Multifiliis (Fouquet),
W76-12143 9-22 5C

HURST, A. J.
Sediment Deposition Model for Tarbela Reservoir,
W76-09970 9-18 2J

HUSE, H.
Sewage Treatment System,
W76-05969 9-12 5D

HUSEMAN, V.
Legal Aspects of Waste Pollution Laws,
W76-03975 9-08 5G

HUSTED, J. V.
Grass Filtration for Final Treatment of Wastewater,
W76-03558 9-08 5D

HUSTON, M.
Micromethods for the Determination of Nonfilterable and Filterable Residues,
W76-11633 9-22 5A

HUTCHINGS, P. A.
The Fauna of Careel Bay with Comments on the Ecology of Mangrove and Sea-Grass Communities,
W76-06022 9-12 2L

HUTCHINS, J. D.
A Pilot Plant for Sewage Treatment by Cross-Flow Filtration,
W76-00246 9-01 5D

HUTCHINS, R. A.
Treatment of Dye Wastes With Granular Activated Carbon,
W76-05738 9-12 5D

Treatment of Dye Wastes with Granular Activated Carbon,
W76-08716 9-16 5D

HUTCHINS, W. A.
Water Rights Laws in the Nineteen Western States, Vol I,
W76-02105 9-05 6E

Water Rights Laws in the Nineteen Western States, Vol 11,
W76-03916 9-08 6E

HUTCHINSON, C. B.
Evaluation of a Proposed Connector Well, Northeastern Desoto County, Florida,
W76-00095 9-01 4B

HUTCHINSON, G. D.
Evaluating State Drinking Water Quality Surveillance Programs,
W76-03430 9-07 5F

Evaluation of State Drinking-Water-Quality Surveillance Programs,
W76-00634 9-02 5F

Evaluation of State Drinking-Water-Quality Surveillance Programs,
W76-05233 9-11 5G

Problems of Individual Supplies,
W76-03434 9-07 5F

HUTCHINSON, T. C.
The Effects of Aqueous Extracts of Crude Oil and Naphthalene on the Physiology and Morphology of a Freshwater Green Alga,
W76-11404 9-21 5C

The Effects of Water-Soluble Petroleum Components on the Growth of Chlorella Vulgaris Beijerinck,
W76-07716 9-15 5C

Experimental Crude Oil Spills on a Small Subarctic Lake in the Mackenzie Valley, N.W.T.: Effects on Phytoplankton, Periphyton, and Attached Aquatic Vegetation,
W76-00142 9-01 5C

Field Studies on the Phytotoxicity of Crude Oil to Subarctic Aquatic Vegetation,
W76-11405 9-21 5C

Heavy-Metal Tolerance in Algae from Contaminated Lakes Near Sudbury, Ontario,
W76-01197 9-03 5C

Studies on the Susceptibility of Ankistrodesmus Species to Crude Oil Components,
W76-11195 9-21 5C

The Toxicity of Crude Oil and Its Components to Freshwater Algae,
W76-09321 9-17 5C

HUTCHINSON, T. C. AND
Heavy Metal Toxicity and Synergism to Floating Aquatic Weeds,
W76-08454 9-16 5C

HUTTON, D. G.
Waste Water Treatment Process,
W76-01132 9-03 5D

HUTTON, G. A. JR.
Dairy Waste Storage Ponds for Soil-Plant Recycling,
W76-04421 9-09 5D

HUTZINGER, O.
Environmental Chemistry in the Netherlands,
W76-01734 9-04 5A

HUYER, A.
Alongshore Coherence at Low Frequencies in Currents Observed over the Continental Shelf Off Oregon and Washington,
W76-01271 9-03 2L

HWANG, C. L.
A Review on Decision Models in Economics of Regional Water Quality Management,
W76-10195 9-19 5G

HWANG, C. P.
Optimizing Organic Carbon and Color Removal from a Board Mill Effluent,
W76-05724 9-12 5D

HYATT, B. S. JR.
Grease Problems in Municipal Wastewater Treatment Systems,
W76-03225 9-07 5D

We Must Improve Chlorination Design,
W76-01554 9-04 5D

HYCHE, C. M.
Neutron Activation Analysis of Some of the Biologically Active Trace Elements in Fish,
W76-06753 9-13 5A

HYDE, H. C.
Utilization of Wastewater Sludge for Agricultural Soil Enrichment,
W76-09219 9-17 5D

HYDE, J. A.
Economical Foam Control in Wastewater Treatment Systems,
W76-08249 9-16 5D

HYDE, J. D.
A Multiple-Well, Water-Level Measuring and Recording System,
W76-04961 9-10 4B

HYDER, D. N.
Drought Resistance Characteristics of Blue Grama Seedlings,
W76-11505 9-21 2I

Drought Resistance of Blue Grama as Affected by Atrazine and N. Fertilizer,
W76-13122 9-24 2I

HYDRA, R.
Plan Formulation and Evaluation Studies--Recreation. Vol. II of V. Estimating Initial Reservoir Recreation Use,
W76-05611 9-12 6B

HYLAND, J. L.
Effect of an Oil Spill on Benthic Animals in
Lower York River, Virginia,
W76-10412 9-19

HYLAND, J. R.
Control of Oil and Other Hazardous Material
W76-05073 9-11

HYMAN, M. A.
The Effects of Two Electrical Barriers on
Entrainment of Fish at a Freshwater Nucl
Power Plant,
W76-07497 9-15

HYNE, N. J.
The Depositional Environment of Zinc, L
and Cadmium in Reservoir Sediments,
W76-00292 9-01

HYNEK, R. J.
Treatment of Cheese Processing Wastes by
Bio-Disc Process,
W76-02438 9-05

HYNES, H. B. N.
The Catastrophic Drift of Stream Insects A
Treatments with Methoxychlor (1,
Trichloro-2,2-Bis(p-Methoxyphenyl) ethane),
W76-00327 9-01

The Stream and its Valley,
W76-06722 9-13

IACOBONI, M.
A Summary of Receiving Water Dissolved
ygen Conditions below Pulp and Paper Mill
cations,
W76-12480 9-23

IAKUNIN, A. E.
Calculation of Ice-Cover Bending Allowing
Viscous Properties of Ice,
W76-02911 9-06

IBBETT, R. D.
A Study of the Stability of Some Radionucli
in Seawater,
W76-08625 9-16

IBRAEV, A.
The Effectiveness of Presowing Flooding
the Rice Fields in KZYL-ORDIA Oblast,
Russian),
W76-02280 9-05

IBRAGIM, A. M.
The Effect of Some Metals on Primary Prod
tion in the Coastal Water of the Caspian S
(In Russian),
W76-07313 9-14

IBRAHIM, A. F.
Effect of Irrigation Regimes in Relation
Chlorcholine Chloride (CCC) Application
Wheat,
W76-06279 9-13

IBSCHER, L.
The 'Rheodrom', A New Flowing Wa
Research Apparatus, (In German),
W76-07945 9-15

ICANBERRY, J. W.
Zooplankton Survival in Cooling Wa
Systems of Four Thermal Power Plants on
California Coast-Interim Report. March 19
January 1972,
W76-08630 9-16

IIKAWA, K.
ontinuous Treatment of Waste Water Con-
ining Phenol by Candida Tropicalis (Candida
opicalis ni yoru fernoru ganyu haisui no zen-
ku shori),
/76-04199 9-09 5D

reatment of Silk Scouring Waste Water by
ctivated Sludge Process (Ken seiren haisui no
assei odei shori),
/76-04067 9-09 5D

IIKI, M.
lethod of Electrolytic Treatment of Waste
/ater,
/76-05300 9-11 5D

lethod of Electrolytic Treatment of Waste
/ater,
/76-07707 9-15 5D

IIMURA, T.
)bservations of Colonial Multiplication in a
apidly Growing Alga, Gonium Multicoccum
ocock (Volvocaceae),
/76-08826 9-17 5C

AKA, E.
iological Treatments of Acid Azo Dyes by
licrobial Populations in Activated Sludge, (In
apanese),
/76-03074 9-07 5D

RISS, I. M.
roperties of Soil in the San Fernando Hydrau-
c Fill Dams,
/76-07219 9-14 8D

he Slides in the San Fernando Dams During
he Earthquake of February 9, 1971,
/76-07220 9-14 8B

SO, S. B.
ssessing Bare Soil Evaporation Via Surface
emperature Measurements,
/76-02754 9-06 2D

ssessing Soil Moisture Remotely,
/76-02753 9-06 2G

ssessing Soil-Water Status Via Albedo Mea-
urement,
/76-02224 9-05 2D

alculation of Evaporation Rates During the
ransition from Energy-Limiting to Soil-Limit-
ng Phases Using Albedo Data,
/76-06935 9-14 2D

)etection of Soil Moisture by Remote Surveil-
ance,
/76-01706 9-04 2G

)etermining Emittances for Use in Infrared
hermometry: A Simple Technique for Ex-
)anding the Utility of Existing Methods,
/76-06923 9-14 2G

stimating Evaporation: A Technique Adapta-
)le to Remote Sensing,
/76-00701 9-02 2D

)n the Concept of Lake Stability,
/76-00990 9-02 2H

urface Albedo and Desertification,
/76-01705 9-04 2B

he Utility of Surface Temperature Measure-
nents for the Remote Sensing of Surface Soil
Water Status,
/76-00305 9-01 2G

The Utility of Surface Temperature Measurements for the Remote Sensing of Surface Soil Water Status,
W76-01121 9-03 2G

IFEADI, C.
Environmental Assessment of Future Disposal Methods for Plastics in Municipal Solid Waste,
W76-02659 9-06 5E

IFEADI, C. N.
Review of Landspreading of Liquid Municipal Sewage Sludge,
W76-02658 9-06 5D

IGUMNOV, A. S.
Hygienic Standardization of Tin Dibutyl Diisooctylthioglycolate in Water Bodies, (In Russian),
W76-09797 9-18 5C

IHNATSYENKA, V. V.
Pine Associations of the Dernovich Stretch of the Pripyat River Floodplain, (In Belorussian),
W76-01918 9-04 2I

IIZUKA, A.
On the Prorocentrum Red Tide Occurred in the Coastal Waters of Toyoura, Funka Bay, Hokkaido, in September, 1973, (In Japanese),
W76-11740 9-22 5C

IIZUKA, S.
Effect of Anaerobic Conditions in Bottom Waters on the Occurrence of Red Tides at Omura Bay,
W76-07101 9-14 5C

On Occurrence of Similar Organisms to Gymnodinium Breve Davis in Omura Bay, (In Japanese),
W76-00341 9-01 5B

IJJAS, I.
Water Quality Control System of Zagyva River Basin,
W76-06430 9-13 5G

IKEDA, Y.
Effects of Enriched Diet with Iron in Culture of Yellow-Tail, (In Japanese),
W76-11573 9-21 5C

Wasteless Liquid Treatment System for Surface Coating Plants (Hyomen shori shisetsu ni okeru muhaisui shori shisutemu ni tsuite),
W76-07625 9-15 5D

IKEHATA, A.
Reclamation and Use of Municipal Waste Water (Toshi ni okeru seikatsu haisui no sairiyo),
W76-09001 9-17 5D

IKEHATA, T.
Treatment of Waste Oil at the Keihin Works--Nippon Kokan,
W76-05312 9-11 5D

IKESHOJI, T.
Insect Growth Regulators for the Control of Aquatic Midges,
W76-09997 9-18 5G

IKRAMUDDIN, M.
Contents of Eleven Trace Elements in Ureilite Achondrites,
W76-09041 9-17 5A

IL'CHENKO, L. Y.
The Effect of Methods of Operation of Aeration Basins on the Development and Population Density of Culex Pipiens L. in the South of the Russian SFSR, (In Russian),
W76-12419 9-23 5G

IL'INSKII,
Petroleum-Oxidizing Bacteria from the Gulf of Finland, (In Russian),
W76-06788 9-13 5C

IL'YASOVA, Z. Y.
Some Problems of the Ecology of the Sary-Chilek Marinka Schizothorax Intermedius Eury-Cephalus Spelter, (In Russian),
W76-08243 9-16 2H

ILICHKINA, A. G.
Sanitary Inspection of Surface Waters Polluted with Aromatic Amino and Nitro-Compounds, (In Russian),
W76-09798 9-18 5A

ILIJANIC, L.
The Influence of Grass-Carp Population (Ctenopharyngodon Idella Val.) on the Vegetation and Ecosystem of Lake Trakoscan, (In Serbo-Croatian),
W76-12272 9-23 5C

ILO, C. G.
Sediment Movement and Friction in Alluvial Streams,
W76-03859 9-08 2J

ILTIS, A.
Phytoplankton of the Saline Waters of Kanem (Chad): X. Conclusions, (In French),
W76-09596 9-18 2H

ILYALETDINOV, A. N.
Effect of Aeration on Microbiological Processes in Flooded Soil, (In Russian),
W76-07363 9-14 2G

IMAI, S.
Ion-Exchange Group Bearing Composite Membranes,
W76-08211 9-16 3A

IMBERGER, J.,
Jet Discharge into a Stratified Reservoir,
W76-00911 9-02 8B

IMHOFF, E. A.
A Guide to State Programs for the Reclamation of Surface Mined Areas,
W76-09142 9-17 5G

IMHOFF, K. R.
Possibilities and Limitations in the Combined Purification of Domestic and Industrial Waste Waters (Moeglichkeiten und Grenzen der Gemeinsamen Reingung Haeuslicher und Gewerblicher Abwaesser),
W76-04207 9-09 5D

INADA, O.
On Spent Semichemical Pulping Liquors. (4) Xylan in Neutral Sulfite Semichemical Spent Liquor (In Japanese),
W76-09338 9-17 5C

INAGAKI, Y.
A Few Considerations on the Measurement of Pore Size Distribution of Activated Carbon (Kasseitan no saikokei bunpu solutei ni kansuru 2,3 no kosatsu),
W76-06309 9-13 5D

INCE, S.
Parameter Influence on Runoff Modeling,
W76-04930 9-10 2A

INES,
Periodicity in the Biometric Variations of Loxechinus Albus Molina, (In Spanish),
W76-09089 9-17 2I

INGLE, B. J.
Corksrew Sanctuary: Use of the Market for Preservation,
W76-03928 9-08 6G

INGOLS, R. S.
The Cause of Trout Fish Kills Occurring in the Water From the Aerated Hypolimnion of Deep Lakes,
W76-05325 9-11 5C

INGRAM, H.
The Politics of Information: The Social Well-Being Objective,
W76-05359 9-11 6B

INGVALSON, R. D.
Minimizing the Salt Burdens of Irrigation Drainage Waters,
W76-00828 9-02 3C

INHABER, H.
An Approach to a Water Quality Index for Canada,
W76-06272 9-13 5G

Environmental Indices and Monitoring,
W76-11245 9-21 5A

INMAN, D. L.
Analytical Model of Duct-Flow Fluidization,
W76-10450 9-19 8B

Description of Seasonal Beach Changes Using Empirical Eigenfunctions,
W76-03377 9-07 2L

Edge Waves and Beach Cusps,
W76-00558 9-02 2L

Sand Level Changes on Torrey Pines Beach, California,
W76-12383 9-23 2L

INMAN, R. C.
Acute Toxicity of Phos-Check (Trade Name) 202 and Diammonium Phosphate to Fathead Minnows,
W76-12334 9-23 5C

INNES, J. K.
Data on Selected Lakes in Washington, Part 3,
W76-08564 9-16 2H

Data on Selected Lakes in Washington, Part 4,
W76-12808 9-24 7C

INOUE, A.
The Heavy Metal Concentrations in the Marine Sediments Along the Coast of Fukuyama, (In Japanese),
W76-06774 9-13 5A

The Heavy Metal Concentrations in the Waters Along the Coast of Fukuyama, (In Japanese),
W76-09815 9-18 5A

INOUE, I.
Development of an Optimum Design Simulation for Screw Pump Plants and Its Application for the Ichihara Municipal Drainage Pump Plant (Sukuryu ponpujo saiteki sekkei shimureshon no kaihatsu to Ichihara-shi Ichihara usui haisui ponpujo e no tekiyorei),
W76-08001 9-15 8C

INOUE, K.
System for Treating Sludge,
W76-11216 9-21 5D

Water Use Policies and Power Plant Economics,
W76-09776 9-18 5G

INOUE, M.
Water Purification Technologies, (In Japanese),
W76-05291 9-11 5D

INOUE, S.
Effect of Soil Moisture after Young Panicle Formation Stage on Mineral Composition in Lowland Brown Rice, (In Japanese),
W76-07693 9-15 3F

Studies of Flocculation and Sedimentation Treatment of Pulp Mill Effluents: An Approach of a Closed System Using Calcium Aluminate Hydrates (In Japanese),
W76-09284 9-17 5D

INOUYE, T. T.
Coliform and Phytoplankton Studies in a Brackish Water Aquaculture Pond Fertilized with Domestic Wastewater,
W76-03568 9-08 5A

IOAKIMIS, E. G.
Basic Trends in the Improvement of Water Supply, Sewer and Waste Water Treatment Systems at Petroleum Processing Plants (Osnovnyye napravleniya v sovershenstvovanii sistem vodosnabzheniya, kanalizatsii i ochistki stokov NPZ),
W76-07521 9-15 5D

IOANNILLI, E.
Evaluation of the Thermal Effects of a Nuclear Power Plant,
W76-09496 9-18 5C

IONESCU-HOMORICEANU, S. I.
Determination of the Possibility of the Biological Treatment of Wastewaters Generated in Petroleum Refineries. Part V. Degradation of Naphthenic Acids and Sulfonic Acids (Determinarea Tratabilitatii biologice a apelor reziduale din rafinariile de petrol. V. Degradarea acizilor naftenici si a acizilor sulfonici).
W76-00126 9-01 5D

IONESCU, V.
Mathematical Model for Establishing the Overflow Spillway Discharges in the Flood Storage Ponds,
W76-01762 9-04 4A

IPAT'YEVA, A. I.
First Results of Investigations of the Water Balance in Rivers in the Upper Kolyma Basin,
W76-02926 9-06 2E

IRELAN, B.
Geohydrologic Reconnaissance of the Imperial Valley, California,
W76-08052 9-15 4B

IRELAND, C. W.
Mogden, Where Sewage Works,
W76-12923 9-24 5D

IRELAND, P.
Customary Use of Florida Beaches,
W76-00929 9-02 6E

IRISH, J. D.
Measurement of Internal Waves of Tidal Frequency Near a Continental Boundary,
W76-02710 9-06 2L

IRIZARRY, M. M.
Puerto Rico: Along the Route of Water Reuse,
W76-11259 9-21 5D

IRVING, L. H.
Recycling for a Purpose -- But for What Pu pose. A Sociologist's View,
W76-03564 9-08

IRVING, R. R.
Metalfinishing Gets an Ecological Boost,
W76-07661 9-15

IRWIN, B.
Fate of Wastewater Sludge in the New Yo Bight Apex,
W76-03825 9-08

IRWIN, D. C.
Apparatus and Process of Separating Packi House Waste,
W76-09046 9-17

IRWIN, G. A.
Water-Quality Investigation, Eel River, Calif nia,
W76-11069 9-20

IRWIN, J.
Water Clarity Records from Twenty-Two N Zealand Lakes,
W76-07253 9-14

IRWIN, W. A.
Economic Disincentives for Pollution Contr Legal, Political, and Administrative Dime sions,
W76-02619 9-06

The Water Pollution Control Act of 1972, stitutional Assessment, Enforcement, Volu I,
W76-10574 9-20

The Water Pollution Control Act of 1972, stitutional Assessment, Enforcement Volu II,
W76-10575 9-20

IRWIN, W. P.
Geologic Map Showing Springs Rich in Carb Dioxide or Chloride in California,
W76-00092 9-01

ISAACS, J. D.
Anisotropic Sand Transport in Tidal Inlets,
W76-09955 9-18

ISAACSON, M. DE ST. Q.
Transverse Forces on Vertical Cylinders Waves,
W76-09583 9-18

ISAEV, G. D.
Settling Tank,
W76-08495 9-16

ISAKSON, J. S.
Comparison of Ecological Impacts of Pos lated Oil Spills at Selected Alaskan Locatio Volume I. Introduction, Summary, Methodo gy, Evaluation and Appendices,
W76-12379 9-23

ISARD, W.
Marginal Pollution Analysis for Long Ru Forecasts,
W76-11127 9-21

ISBESTER, T. J.
Hydraulic Model Studies of the Teton Ca Outlet Works Energy Dissipator,
W76-01833 9-04

ERENTANT, R.
Hydratability as a Parameter of Plant Water Potential, (In French),
W76-09918 9-18 2I

HCHERIKOVA, G. A.
Purification of Gum Rosin Producing Plant Effluents from Resinous Substances (Ochistka stochnykh vod kanifol'noterpentinnogo proizvodstva ot smolistykh veshchestv),
W76-05735 9-12 5D

Rapid Determination of the Cod of Effluents (Uskorennoe opredelenie KhPK stochnykh vod),
W76-05705 9-12 5A

HIDA, S.
Process for Treating Aldehydes,
W76-04087 9-09 5D

HIDA, T.
Method for Manufacturing Sulfite Pulp Cooking Liquor From Sulfite Pulp Spent Liquor,
W76-02777 9-06 5D

HIGE, T.
Assessment of Polyelectrolytes for Phosphorus Removal,
W76-10492 9-19 5D

SHIGURO, M.
An Experimental Investigation of Tertiary Treatment with a Submerged Filter (Sesshoku bakkiho ni yoru gesui sanjishori no jikkenteki kenkyu),
W76-08999 9-17 5D

Experimental Studies on the Sewage Tertiary Treatment by Rotating Disc Method (Kaiten enbanho ni yoru gesui 3-ji shori no jikkenteki kenkyu),
W76-07000 9-14 5D

SHIHARA, Y.
The Measurement of MLSS Using Integrated Spherical Type Turbidimeter, (In Japanese),
W76-01445 9-03 5A

SHII, H.
Muddy Water Treatment System for Aggregate Plant, (In Japanese),
W76-07664 9-15 5D

SHII, K.
Semipermeable Membrane and Process for the Preparation Thereof,
W76-09864 9-18 3A

Separator,
W76-13148 9-24 5F

Supported Semi-Permeable Membranes,
W76-09863 9-18 3A

SHII, M.
Electrolytic Flotation Treatment for Harmful Heavy Metal Waste Water (Yugai jukinzoku haisui no denkai fujoshori),
W76-06963 9-14 5D

Method of Electrolytic Treatment of Waste Water,
W76-07707 9-15 5D

ISHIKAWA, K.
Long- and Short-Term Forecasting of River Discharge, (In Japanese),
W76-01454 9-03 4A

ISHIKAWA, M.
Recovery and Reuse of Tin-Nickel Alloy Pyrophosphate Plating Solution by the Combination of Reverse Osmosis and Ion Exchange (Gyaku-shinto ho, ion kokanho no kumiawase ni yoru suzu-nikkeru gokin pirorinsan mekki eiki no kaishu oyobi saishiyo),
W76-04037 9-09 5D

ISHIMARD, H.
Process of Removing Ammoniacal Nitrogen from Waste Water,
W76-06463 9-13 5D

ISHIMARU, H.
Ammonia Nitrogen Removal from Waste Water Effluents by Zeolite Ion Exchange and Electrolysis Combination (Zeoraito ni yoru ion-kokan-denkai no kumiawase ni yoru haisui karano ammoniasei chisso jokyo),
W76-09023 9-17 5D

ISHIMARU, K.
The Control of Waste Water Flow of New Town into the Treatment Plant (Danchi gesuishorijo no ryunyusui no seigyo ni kansuru kenkyu),
W76-07012 9-14 5D

ISHIO, S.
Toxicity of Jellied Polyacrylamide to Olyzias Latipes and its Growth Inhibiting Action to Porphyra Tenera, (In Japanese),
W76-02391 9-05 5C

ISHIOKA, H.
Studies on the Anesthetic Effects of Eugenol to Kuruma Prawn Juveniles (In Japanese),
W76-01917 9-04 5C

ISHIYAMA, K.
On the Waste Water Treatment System by Present Lancy Method (Genjo ni okeru ranshi hoshiki ni yoru haisuishori shisutemu ni tsuite),
W76-00132 9-01 5D

ISHIZAKI, C.
Influence of Surface Oxides on Adsorption and Catalysis with Activated Carbon,
W76-00112 9-01 5D

ISHMUKHAMETOVA, N. N.
Effect of Hardening on the State of Water in Seedlings of Winter Cultures, (In Russian),
W76-09095 9-17 2I

ISKANDAR, I. K.
The Effect of a Fossil Fuel Power Plant's Cooling Water System on the Water Quality of Green Bay, Wisconsin,
W76-11319 9-21 5B

ISRAEL, G. W.
Drift Deposition Model for Natural-Draft Cooling Towers,
W76-04832 9-10 5B

ISRAELSEN, E. K.
A Water-Land Use Management Model for the Sevier River Basin Phases I and II,
W76-09844 9-18 4A

ISTOCK, C. A.
Population Characteristics of a Species Ensemble of Waterboatmen (Corixidae),
W76-10123 9-19 2H

ISTOMINA, A. G.
The Passage of Tritium with Drinking Water into the Body of Rats and Their Progeny in a Chronic Experiment, (In Russian),
W76-12392 9-23 5C

ITO, J.
Treatment of Waste Water Containing Mercurials by Activated Sludge. I. Mechanism of Removal of Mercurials in waste Water (Kassei odei ni yoru suigin ganyu haisui no shori ni kansuru kenkyu. I Kassei odei no suigin jokyo kiko),
W76-09017 9-17 5D

Treatment of Waste Water Containing Mercurials by Activated Sludge. 2. Mercury Volatilization and the Capacity of Activated Sludge for Waste Water Containing Mercurials (Kasseiodei ni yoru suigin ganyu haisui no shor ni kansuru kenkyu. 2),
W76-09018 9-17 5D

ITO, M.
Instruments for Water and Sewage Treatment Plants (Jogesuido keiso kiki),
W76-06347 9-13 7B

ITO, T.
Development of an Optimum Design Simulation for Screw Pump Plants and Its Application for the Ichihara Municipal Drainage Pump Plant (Sukuryu ponpujo saiteki sekkei shimureshon no kaihatsu to Ichihara-shi Ichihara usui haisui ponpujo e no tekiyorei),
W76-08001 9-15 8C

Elimination Method for Mercury Residue in Water (Suichu yozon suigin no jokyoho),
W76-08476 9-16 5D

On Environmental Factors of Eel Pools: I. Chemistry of the Water and Soil and Plankton in October 1965 and July 1966, (In Japanese),
W76-12275 9-23 5C

Process of Purifying Waste Water by Electrolysis,
W76-02604 9-06 5D

ITO, Y.
The Operation System of Urban Sewerage Treatment (Toshi gesuishorijo no opereshon shisutemu ni tsuite),
W76-00795 9-02 5D

ITOH, M.
Effluent Treatment Process (Abwasseraufbereitungsverfahren),
W76-12506 9-23 5D

ITSKOVA, A. I.
Drinking Water Purification in Industrially Manufactured Compact Installations of the Type 'Struya', (In English),
W76-08579 9-16 5F

ITZAWA, Y.
Effects of Hypoxia on the Breathing Rate, Heart Rate and Rate of Oxygen Consumption in Fishes,
W76-02334 9-05 5C

IVANOV, A. I.
Sulphuric Acid Containing Rinses, Purification,
W76-08506 9-16 5D

IVANOV, A. V.
Hygienic Standardization of Flotation Reagent BB-2 and its Components as Industrial Contaminants of Water Bodies, (In Russian),
W76-09886 9-18 5B

IVANOV, B. G.
Subtropical Freshwater Shrimp Macrobrachium Nipponense (De Haan) (Palaemonidae) In Ponds Near Moscow, (In Russian),
W76-02590 9-06 2I

IVANOV, B. N.
Diffusion of Mineral Ions Through the Wall of Nitella Cells,
W76-05477 9-11 5C

IVANOV, N. A.
Organic Compounds From Kraft Pulping Effluents. III. Phenols (Organicheskie veshchestva stochnykh vod sul'fatnotsellyuloznogo proizvodstva. III. Fenoly),
W76-00055 9-01 5A

IVANOVA, A. A.
Mathematical Simulation of the Snow Melting Process for Computing Flood Hydrographs,
W76-04965 9-10 4A

IVANOVA, M. B.
Biological-Productive Investigations of Zooplankton in the Lakes and Water Reservoirs of the USSR (General Results of the International Biological Program), (In Russian),
W76-11581 9-21 2H

IVANTIN, A. B.
Phytoplankton, Production and Breakdown of Organic Matter in the Kuibyshev Reservoir, (In Russian),
W76-11739 9-22 5C

IVERSEN, M. B.
Movement of Soil and Shallow Groundwater,
W76-04133 9-09 2G

IVES, J. D.
Development of Methodology for Evaluation and Prediction of Avalanche Hazard in the San Juan Mountain Area of Southwestern Colorado,
W76-06605 9-13 2C

The Microenvironment of Climacium Americanum,
W76-06045 9-12 2G

IVES, K. J.
Specifications for Granular Filter Media,
W76-00622 9-02 5D

IWAI, S.
Removal of Ammonia Nitrogen by Catalytic Oxidation Filter Bed (Sesshoku sanka rosho ni yoru ammonia-set chisso no jokyo),
W76-05589 9-12 5D

IWAI, T.
Histochemical Observations on the Permeation of Heavy Metals into Taste Buds of Goldfish,
W76-00334 9-01 5A

IWAKI, H.
Centralized Control System of Sewerage (Gesuido Shuchu Seigyo Shisutemu),
W76-01058 9-03 5D

IWAMA, G. K.
Changes in Some Hematological Characteristics of Coho Salmon (Oncorhynchus Kisutch) in Response to Acute Exposure to Dehydroabietic Acid (DHAA) at Different Exercise Levels,
W76-10333 9-19 5C

IWANO, H.
Method of Treating Waste Liquids from Photographic Processings,
W76-05963 9-12 5D

IWANOW, K.
Assessment of Water Pollution of the Danube River in the Bulgarian Section (845-375 River KM) According to Indices of the Oxygen Regime, (In German),
W76-07292 9-14 5B

IWANOWICZ, H. R.
A Study of the Marine Resources of Hingham Bay,
W76-08039 9-15 5C

IWASAKI, I.
Adsorption Mechanism of Sulfides at a Platinum-Solution Interface,
W76-10636 9-20 5D

IWATSUBO, R. T.
Redwood National Park Studies Data Release Number 1: Redwood Creek, Humboldt County, California, September 1, 1973-April 10, 1974,
W76-02144 9-05 7C

IYENGAR, M. R. S.
Studies on Aerobic Cultivation of Yeast to Reduce Pollution Potential of Distillery Wastes,
W76-04228 9-09 5D

IZUMI, M.
Liquid Waste Treatment Method,
W76-04056 9-09 5D

IZUMISAWA, K.
Approach to Entirely Closed Board Mill by Activated Carbon Adsorption (Itagami kojo ni okeru kasseitan ni yoru haisui shori ni tsuite),
W76-06979 9-14 5D

JAATINEN, A.
Tasam, A Method for Setting Goals, Evaluating and Comparing Plans,
W76-12559 9-23 6A

JACKMAN, V.
Method and Apparatus for Processing Refuse, Sewage and/or Waste Material into a Source of Energy,
W76-02214 9-05 5D

JACKSON, B. J.
Stream Bed Stabilization in Enfield Creek, New York,
W76-06145 9-12 8I

JACKSON, C. E.
Planting Pattern, Plant Population, Irrigation, and Insect Interactions in Cotton.
W76-09998 9-18 3F

JACKSON, D. R.
The Impact of Molybdenum-Enriched Irrigation Water on Agricultural Soils Near Brighton, Colorado,
W76-08675 9-16 5B

JACKSON, E. B.
Effect of Cultural Practices on Grain Yield and Yield Components in Irrigated Wheat,
W76-10176 9-19 3F

Fertilization, Nutrient Composition, and Yield Relationships in Irrigated Spring Wheat,
W76-10177 9-19 3F

JACKSON, H. W.
Estuary Studies,
W76-04319 9-09 5B

JACKSON, J. D.
Organic Sediment Model for Wastewater Outfall,
W76-09951 9-18 5B

JACKSON, J. G.
Deepsea Ventures: Exclusive Mining Rights the Deep Seabed as a Freedom of the Sea,
W76-11973 9-22

JACKSON, J. L.
Self Propelled Sprinkling Irrigation Apparatu
W76-08407 9-16

JACKSON, K.
The Future of Water Resources,
W76-06324 9-13

JACKSON, L. G.
Keeping the Feeder in Business,
W76-03983 9-08

JACKSON, P.
Basic Remote Sensing Investigations for Bea Reconnaissance: An Interim Report,
W76-12375 9-23

JACKSON, P. B. N.
Some Ecological Aspects of the Cabora Ba Dam,
W76-12945 9-24

JACKSON, R. D.
Assessing Bare Soil Evaporation Via Surfa Temperature Measurements,
W76-02754 9-06

Assessing Soil Moisture Remotely,
W76-02753 9-06

Calculation of Evaporation Rates During Transition from Energy-Limiting to Soil-Lim ing Phases Using Albedo Data,
W76-06935 9-14

Detection of Soil Moisture by Remote Surv lance,
W76-01706 9-04

Determining Emittances for Use in Infra Thermometry: A Simple Technique for E panding the Utility of Existing Methods,
W76-06923 9-14

Estimating Evaporation: A Technique Adap ble to Remote Sensing,
W76-00701 9-02

Surface Albedo and Desertification,
W76-01705 9-04

The Utility of Surface Temperature Measu ments for the Remote Sensing of Surface S Water Status,
W76-00305 9-01

The Utility of Surface Temperature Measu ments for the Remote Sensing of Surface S Water Status,
W76-01121 9-03

JACKSON, R. G. II.
Hierarchical Attributes and a Unifying Mo of Bed Forms Composed of Cohesionl Material and Produced by Shearing Flow,
W76-02920 9-06

Velocity--Bed-Form--Texture Patterns Meander Bends in the Lower Wabash River Illinois and Indiana,
W76-02919 9-06

JACKSON, R. M.
Stratified Sampling of Soil Moisture,
W76-02457 9-05

ACKSON, T. A.
The Biogeochemistry of Phosphorus in an Experimental Lake Environment: Evidence for the Formation of Humic-Metal-Phosphate Complexes,
W76-06203 9-13 5C

ACKSON, T. J.
Use of Satellite Data in Urban Hydrologic Models,
W76-03748 9-08 7B

ACOBS, A.
Loop Aeration Tank Design Offers Practical Advantages, Part I,
W76-03682 9-08 5D

Loop Aeration Tank Design Offers Practical Advantages, Part II,
W76-03683 9-08 5D

ACOBS, J. J.
Controlling Sediment and Nutrient Losses from Agricultural Lands,
W76-01090 9-03 5B

Economic and Environmental Aspects of Daily and Annual Dairy Manure Spreading Systems in a Small Watershed,
W76-07161 9-14 5D

ACOBS, S. A.
Permissible Levels of Heavy Metals in Secondary Effluent for Use in a Combined Sewage Treatment-Marine Aquaculture System. I. Monitoring During Pilot Operation,
W76-03547 9-08 5C

Permissible Levels of Heavy Metals in Secondary Effluent for Use in a Combined Sewage Treatment-Marine Aquaculture System. I. Monitoring During Pilot Operation,
W76-10993 9-20 5D

JACOBS, W. B.
Development of Buoy Mounted Hydrocarbon Vapor Sensors for Use in Local Area Pollution Surveillance Systems,
W76-11930 9-22 5A

JACOBSEN, O. J.
Feeding Habits of the Population of Whitefish (Coregonus Lavaretus (L.)) in Haugatjern: A Eutrophic Norwegian Lake,
W76-09882 9-18 2H

What Should be Done with Haugatjern, (In Norwegian),
W76-07401 9-14 5C

JACOBSEN, T. V.
Calculation of Water Temperatures in Clear Lake, Iowa,
W76-09879 9-18 5B

JACOBSEN, W. E.
Impacts of Hydrologic Modification on Water Quality,
W76-05866 9-12 5G

JACOBSON, A. R.
Emergency Repair of Cracked Holding Tank,
W76-03209 9-07 8F

Estuary to be Studied as D.C. Water Source,
W76-03208 9-07 5F

JACOBSON, C. D.
New System Puts the Wood to Wastewater,
W76-05586 9-12 5D

JACOBSON, S.
Behavior of Lobsters (Homarus Americanus) in a Semi-Natural Environment at Ambient Temperatures and Under Thermal Stress,
W76-12761 9-24 5C

JACOBY, E. L. JR.
Estimating Evapotranspiration Under Non-homogeneous Field Conditions,
W76-01707 9-04 2D

JACOBY, G. C. JR.
Overview of Water Requirements for Electric Power Generation, (For the Lower Colorado River Basin),
W76-00746 9-02 6D

JADAMAC, J. R.
Evaluation of Thin Film Oil Samplers,
W76-10381 9-19 5A

JADLOCKI, J. F.
Effects of Water Hardness, Phosphorus Concentration and Sample Pretreatment on the Algal Assay Procedure--Bottle Test,
W76-06708 9-13 5C

JAEKEL, G.
Apparatus for the Aeration of Effluent with Oxygen-Containing Gas,
W76-05035 9-11 5D

JAHNSEN, K. W.
Apparatus for Purification of Industrial Waste Water,
W76-09861 9-18 5D

JAIN, A. K.
Explicit Equations for Pipe-Flow Problems,
W76-08084 9-15 8B

Water Flow Through Mixed Clays,
W76-00898 9-02 2G

JAIN, K. K.
The Investigation of Ion Removal From Water and Wastewater,
W76-07060 9-14 5D

JAIN, R. K.
Short-Term Regulation of BOD Upsets in an Estuary,
W76-10020 9-19 5G

JAIN, S. C.
Hydraulic Modeling of Shallow Cooling Ponds,
W76-07212 9-14 5G

Longitudinal Dispersion Coefficients for Streams,
W76-09589 9-18 5B

Thermal-Hydraulic Model Study of Offshore Discharge System for Kahe Power Plant, Hawaii,
W76-08508 9-16 5B

Turbulent Jets with Reversible Buoyancy,
W76-01849 9-04 5B

JAIRELL, R. L.
An Improved Recording Gage for Blowing Snow,
W76-02700 9-06 7B

JAISWAL, C. S.
A Hele-Shaw Model Study of Steady State Flow in an Unconfined Aquifer Resting on a Sloping Bed,
W76-00540 9-02 2F

JAKAB, S.
Treatment of Waste Waters from a Combined Sewer System (Egyesitett Rendszeru Csatornahalozat Szennyvizeinek Tisztitasa),
W76-01276 9-03 5D

JAKLIN, J.
Calibration of the State Water Planning Model for Sub-Basin 42-KJ of the Yellowstone River Basin,
W76-04232 9-09 4A

JAKOBSEN, B. F.
Water and Phosphate Transport to Plant Roots,
W76-06002 9-12 2I

JAKOBSEN, P.
Reuse of Effluent for Agricultural Purposes,
W76-01416 9-03 5D

JAKOBSON, K. F.
Straining Apparatus,
W76-06476 9-13 3E

JAKUBEK, P.
Device for Separating Liquids of Specifically Lower Density than Water, and Particularly Oil, from Water,
W76-11836 9-22 5G

JAKUBOWSKI, W.
Apparatus for Conditioning Unlimited Quantities of Finished Waters for Enteric Virus Detection,
W76-12168 9-23 5A

JAKUSZEWSKI, B.
Problems of Galvanic Wastewater Purification in Closed Water Cycle (Problemy oczyszczania sciekow galwanizerskich w zamknietym obiegu wodnym),
W76-05285 9-11 5D

JALICKEE, J. B.
Objective Analysis of IFYGL Surface Meteorological Data,
W76-11435 9-21 2H

JAMES, B. M.
Pelagic Tar in the Gulf of Mexico and Caribbean Sea,
W76-10409 9-19 5B

JAMES, E.
A Note on Uncertainty and the Evaluation of Public Investment Decisions,
W76-06617 9-13 6C

Optimal Pollution Control and Trade in Collective Goods,
W76-08367 9-16 5G

JAMES, G. W.
Quantitative Water Quality with ERTS-1,
W76-02052 9-05 5A

JAMES, I. C. II.
Data Requirements for the Optimization of Reservoir Design and Operating Rule Determination,
W76-09622 9-18 4A

An Environmental Assessment of Impacts of Coal Development on the Water Resources of the Yampa River Basin, Colorado and Wyoming--Phase-II Work Plan,
W76-11500 9-21 5C

JAMES, K. H.
Trace Metal Concentrations in Fucus from the Bristol Channel,
W76-11719 9-22 5C

JAMES, L. D.

JAMES, L. D.
Cost of Water Pollution Control in the Carpet Industry,
W76-12422 9-23 5G

Formulation of Nonstructural Flood Control Programs,
W76-02879 9-06 6F

Remedial Measures for Urban Flood Peak Reduction,
W76-09736 9-18 2E

Reorientation of Urban Water Resources Research, Executive Summary,
W76-06554 9-13 6B

Reorientation of Urban Water Resources Research, Final Report,
W76-06553 9-13 6B

JAMES, L. G.
Modeling Infiltration and Redistribution of Soil Water During Intermittent Applications,
W76-01085 9-03 2G

JAMES, M. E.
Geology and Geomorphology of the H. J. Andrews Experimental Forest, Western Cascades, Oregon,
W76-05941 9-12 4D

JAMES, P. M.
Some In-Situ Permeability Tests in Sands,
W76-00484 9-01 8B

JAMES, R.
Industrial Cost Recovery and User Charge Assessments,
W76-05813 9-12 5G

JAMES, R. O.
Determination of Aluminum in Paper Machine White Water by Potentiometric Titration with Fluoride Ion,
W76-12482 9-23 5A

JAMES, W. R.
Development of a Shallow-Water Wave Direction Gage,
W76-02399 9-05 2L

Techniques in Evaluating Suitability of Borrow Material for Beach Nourishment,
W76-13175 9-24 8B

JAMET, B.
Membrane Support-Plates and Fluid Separating Apparatus in which They are Present,
W76-09857 9-18 5D

JAMIESON, D. G.
Evaluation of Short-Term Operational Policies for a Multi-Purpose Reservoir System,
W76-06420 9-13 4A

Improved Techniques for Water Resource Systems Design,
W76-09624 9-18 4A

Real-Time Management of Water-Resource Systems,
W76-05747 9-12 6A

Use of Simulation Models for the Evaluation of a Regional Water-Resource System,
W76-12540 9-23 6A

JAMISON, G. G.
Water Resources Data for Nebraska, 1974: Part 1. Surface Water Records,
W76-04981 9-10 7C

JAN DE PUTTER, W.
Device for Membrane Filtration,
W76-05037 9-11 5F

JANARDAN, K. G.
Oxygen Demand Parameters: Correlation of BOD5 with COD,
W76-03701 9-08 5A

JANARDAN RAO, Y.
Optimum Design of Dug-Wells in Hard Rock Terrains,
W76-01892 9-04 8E

JANAUER, G. E.
Selective Separations by Reactive Ion Exchange, Part II, Preconcentration and Determination of Complex Iron Cyanides in Waters,
W76-03583 9-08 5A

JANDA, R. J.
Graphic and Tabular Summaries of Water and Suspended-Sediment Discharge During Eight Periods of Synoptic Storm Sampling in the Lower Drainage Basin of Redwood Creek, Humboldt County, California,
W76-04398 9-09 7C

JANK, B. E.
Efficacy of Biological Nitrification,
W76-03684 9-08 5D

Factors Affecting Activated Sludge Treatment of Kraft Bleachery Effluent,
W76-07684 9-15 5D

JANKOVIC, D.
The Fish Fauna of the Djerdap Impoundment in the First Year After Formation, (In German),
W76-07297 9-14 8I

JANOWITZ, G. S.
The Effect of Bottom Topography on a Stratified Flow in the Beta Plane,
W76-03378 9-07 2H

JANSEN, W.
Purification of Waste Water Containing Organic and Inorganic Impurities,
W76-10966 9-20 5D

JANSKY, K.
Engineering Methods of Process Solutions in the Treatment of Tannery Effluents,
W76-07505 9-15 5D

Water Quality Aspects of Tannery Effluents Disposal,
W76-01645 9-04 5D

JANSSON, U. M. B.
Chemical Characterization of Fiber Building Board Mill Effluent,
W76-05731 9-12 5A

JANZEN, J. J.
A Survey of Effects of Animal Wastes on Stream Pollution from Selected Dairy Farms,
W76-03974 9-08 5B

JANZEN, S.
The Identification of Phthalic Acid Esters in the Tissues of Cyprinodont Fish and Their Activity as Heartrate Depressors,
W76-10344 9-19 5A

JAOUICH, B. A.
Nitrate Reduction in Peat,
W76-12625 9-23 5D

JAQUET, J-M.
Computations of Physical Transport a
Regeneration of Phosphorus in Lake Erie, F
1970,
W76-08531 9-16

Cultural Impact on the Geochemistry of Se
ments in Lake Erie,
W76-08727 9-16

Forms of Phosphorus in the Surficial Se
ments of Lake Erie,
W76-08527 9-16

Mercury in the Surficial Sediments of L
Erie,
W76-08526 9-16

Surficial Sediments of Lake Erie,
W76-08725 9-16

JAQUET, N. G.
Ground-Water and Surface-Water Relati
ships in the Glacial Province of North
Wisconsin - Snake Lake,
W76-12444 9-23

JARDINE, G. D.
Irrigation Scheduling and Sugarbeet Prod
tion,
W76-13002 9-24

JARMAN, R.
An Exploratory Survey and Analysis of Sai
in Galveston Bay, Texas,
W76-08095 9-15

JARRELL, L.
Automated Pond Water Treatment Unit,
W76-11340 9-21

JARRETT, R. D.
Manual for Estimating Flood Characteristic
Natural-Flow Streams in Colorado,
W76-11672 9-22

JARVIS, G. T.
The Thermal Regime of Trapridge Glacier
Its Relevance to Glacier Surging,
W76-05916 9-12

JASINSKI, B.
Water Ozonation Plant at Wroclaw (St
ozonowania wode we Wroclawiu),
W76-03674 9-08

JASSBY, A.
Vertical Patterns of Eddy Diffusion Du
Stratification in Castle Lake, California,
W76-02414 9-05

JASZKA, D. J.
Sequential Chlorination -- Impact on the
vironment,
W76-10860 9-20

JAVARAMI REDDY, P.
Synthesis of Basin Response with Inadeq
Data,
W76-06675 9-13

JAYAWEERA, K. O. L. F.
Some Remarks on the Unusual Beaufort
Ice Conditions in Summer 1975,
W76-12470 9-23

JEANNE-LEVAIN, N.
The Effects of Lindane on the Morphology
the Growth of Some Unicellular Organisms
French),
W76-08676 9-16

DELE, D. G.
Livestock Waste Management in a Quality Environment,
W76-03991 9-08 5D

DLICKA, J. A.
Selecting and Installing Synthetic Pond Linings,
W76-02431 9-05 8G

FFERIES, D. F.
Environmental and Public Health Consequences of the Controlled Disposal of Transuranic Elements to the Marine Environment,
W76-08604 9-16 5C

FFERY, W.
Water Pollution,
W76-03921 9-08 5G

FFERY, W. D.
Water Allocation,
W76-03920 9-08 4A

FFREY, L. M.
Pelagic Tar in the Gulf of Mexico and Caribbean Sea,
W76-10409 9-19 5B

HN, P. J.
The Chemical Speciation of PU-239, PU-240 and CS-137 in Lake Michigan Waters,
W76-05889 9-12 5B

Effect of Municipal Treatment Processes on PU-239, PU-240, and CS-137,
W76-05890 9-12 5F

Sedimentary Pu-239, Pu-240 Phase Distributions in Lake Michigan Sediments,
W76-05891 9-12 5B

ELLYMAN, A. D.
Water as a Forest Product,
W76-06200 9-13 4A

ENG, S. S.
Organochlorine Pesticide Residues in Cultured Fishes of Taiwan,
W76-07697 9-15 5C

ENKINS, C. R.
Physiological Effects of Sublethal Levels of Acid Water on Fish,
W76-08927 9-17 5C

ENKINS, D.
An Evaluation of the Accumulation, Translocation, and Degradation of Pesticides at Land Wastewater Disposal Sites,
W76-03871 9-08 5B

ENKINS, D. W.
Flow of Toxic Metals in the Environment,
W76-10638 9-20 5B

ENKINS, E. D.
Water-Level Changes in Southwestern Kansas, 1940-75,
W76-12297 9-23 4B

Water Resources of Gove, Logan, and Wallace Counties, West-Central Kansas,
W76-00093 9-01 7C

ENKINS, E. E.
Irrigation Vehicle,
W76-09869 9-18 3F

ENKINS, R.
Representative Dirty Water Sampling,
W76-09702 9-18 5A

JENKINS, S. H.
A Feasibility Study of the Control of Pollution from Industrial Waste Waters Discharged into the Lagoon of Venice,
W76-10679 9-20 5D

JENKINS, S. R.
Model Sand Filters for the Removal of Colloidal Manganese Oxides Using Selected Cations as Filter Aids,
W76-00111 9-01 5F

JENNE, E. A.
The Time Stability of Dissolved Mercury in Water Samples-I. Literature Review,
W76-08767 9-17 5A

The Time Stability of Dissolved Mercury in Water Samples--II. Chemical Stabilization,
W76-03009 9-07 5A

JENNER, C.
Correlation of Dual-Channel Airborne IR Data with Soil Moisture Measurements,
W76-06660 9-13 2G

JENNETT, J. C.
Anaerobic Filter Treatment of Pharmaceutical Waste,
W76-05275 9-11 5D

Geochemical Impact on Lead-Mining Wastewaters on Streams in Southeastern Missouri,
W76-02897 9-06 5C

Water Resources Problems and Solutions Associated with the New Lead Belt of S.E. Missouri,
W76-06948 9-14 5G

JENNINGS, C. D.
Cycling of Fe55 and Zn65 in Columbia River Carp Following Reactor Shutdown,
W76-09508 9-18 5C

JENNINGS, J. L.
Cleaning of Membrane Surfaces,
W76-02263 9-05 3A

JENNINGS, M. E.
Steady-State Segmented Dissolved-Oxygen Model,
W76-05855 9-12 5B

JENSEN, B. C.
Economic Assessment of an Activity Analysis Model for Water Supply Planning,
W76-03163 9-07 5D

JENSEN, C. E.
Earthwatch,
W76-06321 9-13 5A

Earthwatch-Sentinel for the Future,
W76-10645 9-20 5A

JENSEN, E. T.
Problems in Integrating Water Programs,
W76-00082 9-01 5G

JENSEN, I. B.
Effects of Surface Configuration in Water Pollution Control on Semiarid Surface Mined Lands,
W76-02726 9-06 5G

JENSEN, K.
Hatching Rate as Bioassay. Proposal for a Standard Technique,
W76-04918 9-10 5C

JENSEN, L. D.
Benthic Invertebrates,
W76-05877 9-12 5C

Effects of Condenser Destruction of Algae on Dissolved Oxygen Levels in the James River,
W76-08638 9-16 5C

Effects of Condenser Entrainment on Algal Photosynthesis at Mid-Atlantic Power Plants,
W76-08637 9-16 5C

Effects of Entrainment of Zooplankton at Three Mid-Atlantic Power Plants,
W76-02315 9-05 5C

Entrainment of Planktonic Organisms into Cooling Water Systems of Three Mid-Atlantic Thermal Power Plants,
W76-08635 9-16 5C

Entrainment of Zooplankton at Three Mid-Atlantic Power Plants,
W76-08639 9-16 5C

Environmental Responses to Thermal Discharges from Marshall Steam Station, Lake Norman, North Carolina,
W76-05870 9-12 5C

Environmental Responses to Thermal Discharges from the Chesterfield Station, James River, Virginia,
W76-09652 9-18 5C

Introduction and Physical Description of Lake Norman,
W76-05871 9-12 5C

Plankton Populations,
W76-05873 9-12 5C

Primary Production,
W76-05874 9-12 5C

Thermal and Water Quality Characteristics of Lake Norman,
W76-05872 9-12 5C

Zooplankton Entrainment,
W76-05876 9-12 5C

Zooplankton Entrainment at Three Mid-Atlantic Power Plants,
W76-01937 9-04 5C

JENSEN, M. E.
Changes in Climate and Estimated Evaporation Across a Large Irrigated Area in Idaho,
W76-06406 9-13 2D

JENSEN, P.
Adaptation of a British Waste Management System to the U.S. Environment,
W76-07173 9-14 5D

JENSEN, R. G.
Hydrologic Data for the Idaho National Engineering Laboratory Site, Idaho, 1971 to 1973,
W76-06447 9-13 5B

JENSEN, S. E.
A Model for Estimating Actual Evapotranspiration from Potential Evapotranspiration,
W76-08132 9-16 2D

JENSON, R.
Taking Care of Wastes from the Trout Farm,
W76-00433 9-01 5D

JENT, J. P.
Response of Saturated Sands to Cyclic Shear at Earthquake Amplitudes,
W76-01814 9-04 8D

JEPER, J.
The Biological Purification of Waste Water in Carrousel Plants (Die Biologische Reinigung des Abwassers in Carrouselanlagen),
W76-03332 9-07 5D

JERIS, J. S.
Pilot-Scale, High-Rate Biological Denitrification,
W76-00238 9-01 5D

Waste Treatment Apparatus,
W76-09432 9-18 5D

Waste Treatment Process,
W76-08978 9-17 5D

JERMAR, M.
The Czechoslovak Water Development Planning Approach and Its Application,
W76-05749 9-12 6A

JERNELOV, A.
Estimates of Socio-Economic Damages of an Oil Spill,
W76-12947 9-24 5G

JEROME, J.
In Situ Colour Measurements on the Great Lakes,
W76-00885 9-02 5A

Optical Properties of the Great Lakes,
W76-11440 9-21 2H

Transmissometer Measurements of the Great Lakes,
W76-06370 9-13 7B

JETLAND, J.
Town Gives Primary and Secondary Treatment to Blandin's Effluent,
W76-10857 9-20 5D

JEWELL, W. J.
Optimization of Denitrification Process,
W76-07225 9-14 5D

JEZESKI, J. J.
Comparative Survival of Indicator Bacteria and Enteric Pathogens in Well Water,
W76-12194 9-23 5A

JHA, A. D.
High Temperature Electrodialysis - Phase V,
W76-03148 9-07 3A

JHAWAR, M.
Meeting EPA Standards with Reverse Osmosis,
W76-05295 9-11 5D

JIANG, L.
Long Term Weathering Characteristics of Iranian Crude Oil: The Wreck of the 'Northern Gulf',
W76-10405 9-19 5B

JIJI, L. M.
Submerged Thermal Discharges,
W76-04799 9-10 5B

+)JILEK, R.
Biomass -- A Product of Biological Purification of Pulping Effluents as Feed for Poultry (Biomasa -- produkt biologickeho cisteni odpadnich vod po vyrobe celulozy -- jako krmivo pro drubez),
W76-02515 9-06 5E

JIMINEZ, R. A.
Development of Asphalt Cushioned Plastic Reinforced Asphalt Membranes for Seepage Control,
W76-01812 9-04 3B

JIRACEK, G. R.
Electromagnetic Reflection from Multi-Layered Snow Models,
W76-07780 9-15 2C

JIRKA, G. H.
Stability and Mixing of a Vertical Round Buoyant Jet in Shallow Water,
W76-08144 9-16 8B

Submerged Multiport Diffusers for Cooling Water Discharge,
W76-06464 9-13 5D

JO, M.
Studies on Coagulation Treatment of Spent Water from Pulping Process. Part 2. Coagulation Characteristics of Hemicellulose (In Japanese),
W76-10839 9-20 5D

JOBSON, H. E.
Canal Evaporation Determined by Thermal Modeling,
W76-01582 9-04 2D

JOCHUM, O.
On the Water Channels of the Internal Drainage System of the Hintereisferner, Otztal Alps, Austria,
W76-07064 9-14 2C

JODO, S.
Stomatal Movement and Water Relations in Crops: 2. Stomatal Behavior of Tobacco Leaves of Different Ages and the Influence of Soil Water Shortage, (In Japanese),
W76-02252 9-05 2I

JOENSEN, A. H.
Studies on Oil Pollution and Seabirds in Denmark 1968-1971,
W76-12256 9-23 5C

JOENSUU, O.
Postdepositional Injections of Uranium-Rich Solutions into East Pacific Rise Sediments,
W76-01098 9-03 8E

JOERES, E. F.
Statistical Study of Phosphorus Removal in Wisconsin,
W76-07146 9-14 5A

A Survey of Phosphorus Removal in Wisconsin,
W76-12649 9-23 5D

JOHANNESSON, P.
Parameters Affecting Stability of Rubble Mounds,
W76-11854 9-22 8B

JOHANNSEN, G. L.
Reverse Osmosis of Treated and Untreated Secondary Sewage Effluent,
W76-03351 9-07 5D

Reverse Osmosis of Treated and Untreated Secondary Sewage Effluent; Appendix A-2 and Appendix A-6,
W76-07061 9-14 5D

JOHANSON, P. A.
Studies of Columbia River Water Quality Development of Mathematical Models for Sediment and Radionuclide Transport Analysis,
W76-12702 9-24 5B

JOHANSSON, C.
Closing the White Water System of Paper Machines -- Effective Protection of the Environment (Fechamento do sistema de a branca das maquinas de papel -- uma pote lucrativa do meio ambiente),
W76-09342 9-17

JOHANSSON, J. H.
Sewage Flocculating and Sedimentation T Unit,
W76-00594 9-02

JOHANSSON, N.
Pikes (Esox Lucius L.) Shown to be Affec by Low pH Values During First Weeks A Hatching,
W76-10343 9-19

Some Effects of Acidified Water on the E Development of Roach (Rutilus Rutilus L.) Perch (Perca Fluviatilis L.),
W76-10076 9-19

JOHARI, G. P.
The Permittivity and Attenuation Polycrystalline and Single-Crystal Ice Ih a and 60 MHz,
W76-05672 9-12

JOHN, C. B.
Mineral Resource Management of the O Continental Shelf.
W76-09306 9-17

JOHN, P. H.
A Conductivity Flow Meter,
W76-12825 9-24

JOHN, P. T.
An Empirically Modified Strokes Equation Mean Particle Size from Hindered Settling periment at any one Concentration,
W76-04973 9-10

JOHNS, G. G.
Accuracy of Soil Water Budgets Based o Range of Relationships for the Influence of Water Availability on Actual Water Use,
W76-02715 9-06

JOHNSEN, P. K.
A Cluster Analysis of Activity, Frequency, Environment Variables to Identify Wa Based Recreation Types,
W76-12955 9-24

JOHNSEN, T. N. JR.
Effects of Pinyon-Juniper Removal on Nat Resource Products and Uses in Arizona,
W76-08108 9-16

JOHNSON, A.
Remedial Measures for Urban Flood P Reduction,
W76-09736 9-18

JOHNSON, A. C.
Development of Water Quality Management dices,
W76-07152 9-14

JOHNSON, A. H.
Phosphorus Loss by Stream Transport fro Rural Watershed: Quantities, Processes, Sources,
W76-12435 9-23

Some Observations Concerning Preparat and Storage of Stream Samples for Dissol Inorganic Phosphate Analysis,
W76-00538 9-02

JOHNSON, A. I.
Groundwater,
W76-11066 9-20

INSON, A. M.
he Ability of Debris, Heavily Freighted with oarse Clastic Materials, To Flow on Gentle lopes,
V76-10711 9-20 2J

HNSON, A. M. F.
Ise of Water in Georgia, 1970, with Projec-ons to 1990,
V76-02622 9-06 6D

HNSON, B.
Canada at the Third Law of the Sea Con-erence: Policy, Role, and Prospects,
V76-06827 9-14 6E

HNSON, B. G. H.
Control of the Sea Lamprey (Petromyzon Marinus) in Lake Superior, 1953-70,
W76-07250 9-14 8I

HNSON, B. H.
nvestigation of Mathematical Models for the Physical Fate Prediction of Dredged Material,
W76-02946 9-06 5B

HNSON, C. F. III.
The Mississippi Public Trust Doctrine: Public and Private Rights in the Coastal Zone,
W76-04348 9-09 6E

HNSON, C. J.
Pivot Sprinkler,
W76-11829 9-22 3F

HNSON, C. W.
Sediment Yield from Southwest Idaho Range-land Watersheds,
W76-01086 9-03 2J

HNSON, D. E.
Floating Structure Arrangement,
W76-10465 9-19 8A

HNSON, D. L.
Apparatus and Method for Removing Pollu-tants from Wastewater,
W76-10200 9-19 5D

HNSON, D. R.
Selecting A Mill Effluent Treatment System--Some Considerations,
W76-02470 9-05 5D

Selecting a Mill Effluent Treatment System--Some Considerations.
W76-06969 9-14 5D

OHNSON, F. A.
A Conductivity Flow Meter,
W76-12825 9-24 7B

OHNSON, F. D.
Applications of Aerospace Technology in the Public Interest: Pollution Measurement,
W76-06710 9-13 5C

Monitoring the Environment,
W76-00361 9-01 5A

Spectroscopic Instruments, Satellites and Computers: New Directions for Monitoring the Environment,
W76-00315 9-01 7B

OHNSON, F. L.
Flood-Caused Tree Mortality Around Illinois Reservoirs,
W76-06027 9-12 4A

OHNSON, G. P.
Hydroelectric Power Potential at Corps of Engineers Projects,
W76-09765 9-18 6B

JOHNSON, G. V.
Hardness Removal by Ion Exchange With A Recoverable Organic Regenerant,
W76-02561 9-06 5D

Tropic Status of Selected Northern New Mexico Lakes,
W76-10808 9-20 5C

JOHNSON, H. E.
Comparative Toxicity of Larval Lampricide (TFM: 3-Trifluoromethyl-4-Nitrophenol) To Selected Benthic Macroinvertebrates,
W76-02330 9-05 5C

JOHNSON, H. P.
Effect of Tillage Systems on Runoff Losses of Pesticides: A Simulated Rainfall Study,
W76-11169 9-21 5B

Movement of Herbicides in Soil by Mass Flow,
W76-03134 9-07 5B

Nitrate, Phosphorus, and Sulfate in Subsurface Drainage Water,
W76-01146 9-03 5B

JOHNSON, J. B.
An Economic Appraisal of Alternative Dairy Waste Management Systems Designed for Pollution Control,
W76-10547 9-20 5D

Economic Impact of Selected Pollution Control Measures on Beef and Dairy Farms,
W76-00470 9-01 5G

Economic Impacts of Alternative Water Pollution Control Rules on Beef Feedlots of Less Than 1000 Head Capacity,
W76-07158 9-14 5D

Economic Impacts of Implementing EPA Water Pollution Control Rules on the United States Beef Feeding Industry,
W76-07160 9-14 5G

Economic Research Pertaining to Problems of Livestock Waste Management and Pollution Control,
W76-07157 9-14 5G

Impacts of Imposing Selected Pollution Controls,
W76-03982 9-08 5G

A Summary of State Regulations Pertaining to Animal Waste Management in the North Central Region of the United States,
W76-11060 9-20 5G

JOHNSON, J. D.
Kinetics of Viral Inactivation by Bromine,
W76-00118 9-01 5F

Remote Sensing of Resources in Arid Lands,
W76-06260 9-13 7A

JOHNSON, J. E.
A Model of Alewife Migration in the Parker River, Massachusetts for Simulating an Optimal Anadromous Fish Stock Management Program,
W76-02868 9-06 8I

Survey for Radioactivity in a Swamp,
W76-12689 9-24 5C

JOHNSON, J. H.
Active Carbon: Dechlorination and the Adsorption of Organic Compounds,
W76-00113 9-01 5D

JOHNSON, J. J.
The Mississippi Public Trust Doctrine: Public and Private Rights in the Coastal Zone,
W76-04348 9-09 6E

JOHNSON, J. O. JR.
Water Monitoring Stations,
W76-00605 9-02 5A

JOHNSON, J. S.
Complete Reuse of Textile Dyeing Wastes Processed with Dynamic Membrane Hyperfiltration,
W76-02312 9-05 5D

JOHNSON, J. S. JR.
Filtration Techniques for Purification of Kraft Pulp Mill and Bleach Plant Wastes,
W76-07643 9-15 5D

A Pilot Plant for Sewage Treatment by Cross-Flow Filtration,
W76-00246 9-01 5D

JOHNSON, K. G.
Floods in Eastern Lajas Valley and the Lower Rio Loco Basin, Southwestern Puerto Rico,
W76-01182 9-03 2E

JOHNSON, K. S.
The Treatment of Blast Furnace Gas Washing Effluent,
W76-01633 9-04 5D

JOHNSON, L.
Physical and Chemical Characteristics of Great Bear Lake, Northwest Territories,
W76-04095 9-09 2H

JOHNSON, L. D.
Properties of Expansive Clay Soils; Report 2, A Numerical Procedure for Predicting Heave with Time,
W76-08420 9-16 8D

JOHNSON, L. E.
Guidelines for Material Placement in Marsh Creation,
W76-08325 9-16 5G

Public Law 92-500-- Water Quality Analysis and Environmental Impact Assessment, Technical Report (Volume I),
W76-11806 9-22 5G

Public Law 92-500--Water Quality Analysis and Environmental Impact Assessment, Technical Report, Volume II,
W76-11807 9-22 5G

JOHNSON, M. V.
Annual Peak Discharges from Small Drainage Areas in Montana Through September 1975,
W76-08049 9-15 2E

Floods of May-July 1975, Along the Continental Divide in Montana,
W76-11675 9-22 2E

A Method for Estimating Magnitude and Frequency of Floods in Montana,
W76-05422 9-11 4A

JOHNSON, N. M.
Atmospheric Sulfur: Its Effect on the Chemical Weathering of New England,
W76-11890 9-22 5A

JOHNSON, P. M.
Windbreaks May Increase Water Yield from the Grassland Islands in Arizona's Mixed Conifer Forests,
W76-12477 9-23 3B

JOHNSON, P. R.
Automatic Scum Removal Trough,
W76-00578 9-02 5D

JOHNSON, R.
Investigation of Diatom Populations in Rhitron and Potamon Communities in Oak Creek, Arizona,
W76-02458 9-05 5A

JOHNSON, R. E.
Field Performance of Permeable Breakwater,
W76-08684 9-16 8A

JOHNSON, R. L.
Biological Regeneration of Activated Carbon in Advanced Wastewater Treatment,
W76-01684 9-04 5D

Fish Ladders for John Day Dam, Columbia River, Oregon and Washington,
W76-02537 9-06 8I

High-Rate Water Treatment: The State-of-the-Art,
W76-00226 9-01 5F

John Day Dam, Columbia River, Oregon and Washington; Hydraulic Model Investigations,
W76-03872 9-08 8B

Little Goose Dam, Snake River, Washington, Hydraulic Model Investigation,
W76-07095 9-14 8A

Spillway for Little Goose Dam, Snake River, Washington, Hydraulic Model Investigation,
W76-07094 9-14 8B

JOHNSON, R. R.
Relationship of Crop Metabolism and Water Status to Irrigation Need,
W76-01512 9-04 3F

JOHNSON, R. W.
A Simulation Model For Studying Effects of Pollution and Freshwater Inflow on Secondary Productivity in a Ecosystem,
W76-02567 9-06 5C

A Simulation Model for Studying Effects of Pollution and Freshwater Inflow on Secondary Productivity in an Ecosystem,
W76-04570 9-10 2L

Water Diversion and the Moratorium,
W76-09234 9-17 4A

JOHNSON, V.
Sprinkler Mounting Device,
W76-02260 9-05 3F

JOHNSON, V. E.
On-Site Bioassay Testing at Cariboo Pulp and Paper,
W76-11394 9-21 5C

JOHNSON, W. K.
Analysis of Structural and Nonstructural Flood Control Measures Using Computer Program HEC-5C,
W76-07564 9-15 4A

JOHNSSON, A.
A Flexible Apparatus for Continuous Recording of Water Uptake by Plants,
W76-00571 9-02 2I

JOHNSSON, K. O.
Water Research Program, Biennial Progress Report, for the Period March 15, 1962, to March 15, 1964, (Oak Ridge National Laboratory),
W76-04670 9-10 1B

JOHNSTON, I. A.
Studies on the Swimming Musculature of the Rainbow Trout, II. Muscle Metabolism During Severe Hypoxia,
W76-03042 9-07 5C

JOHNSTON, J. B.
Identification and Mapping of Fishing Banks on the Outer Continental Shelf of the Gulf of Mexico,
W76-12228 9-23 6G

JOHNSTON, N. T.
Chlorinated Hydrocarbon Residues in Fishes from the Lower Fraser River,
W76-10505 9-20 5C

JOHNSTON, P. R.
Parameter Optimization for Watershed Models,
W76-09853 9-18 2A

JOHNSTON, R.
Chlorohydrocarbons in Lake Superior Lake Trout (Salvelinus Namaycush),
W76-04913 9-10 5C

JOHNSTON, R. S.
Acid Mine Rehabilitation Problems at High Elevations,
W76-02281 9-05 5B

Soil Water Depletion by Lodgepole Pine on Glacial Till,
W76-01221 9-03 2G

JOLLEY, R. L.
Chlorination of Organics in Cooling Waters and Process Effluents,
W76-12882 9-24 5A

Determination of Trace Organics in Municipal Sewage Effluents and Natural Waters By High-Resolution Ion-Exchange Chromatography,
W76-02507 9-06 5A

JOLLIFFE, I. P.
Beach-Offshore Dredging: Some Environmental Consequences,
W76-09335 9-17 5G

JOLLY, S. S.
Endemic Fluorosis in Punjab: I. Skeletal Aspect,
W76-12500 9-23 5C

JONASSON, L. R.
Some Comments on Interferences by CU(II) Ions and AG(I) Ions on the Wet Reduction-Flameless Atomic Absorption Determination of Mercury,
W76-09039 9-17 5A

JONELL, P. O.
Pore Water Pressure Measuring Device,
W76-06477 9-13 2G

JONES, A. A.
A Technique for Measurement of Wood-Fiber Deposits Around Pulp-Mill Outfalls,
W76-04765 9-10 5A

JONES, A. K.
Studies of Tolerance to Heavy Metals in the Flora of the Rivers Ystwyth and Clarach, Wales,
W76-03053 9-07 5C

Studies of Tolerance to Heavy Metals in the Flora of the Rivers Ystwyth and Clarach, Wales,
W76-07712 9-15 5C

JONES, A. P.
The Treatment of High Proportions of Tex Effluent in Admixture with Sewage,
W76-05328 9-11

JONES, B.
EPA and the Livestock Feeder,
W76-01388 9-03

Using Corrugated Steel to Slash Sewer Cost 12%,
W76-06984 9-14

JONES, B. H.
Impact of Environmental Regulation on Livestock Industry,
W76-01389 9-03

JONES, C. A.
Seasonal Reversal of Flood-Tide Domin Sediment Transport in a Small Oregon Estua
W76-07783 9-15

JONES, C. C.
Economic Analysis of Effluent Guidelin Fertilizer Industry,
W76-09777 9-18

JONES, C. T.
Development of a Water Quaity Simulat Model Applicable to Great Salt Lake, Utah,
W76-10815 9-20

JONES, D. B.
Development of a Gross Pollution Detect Field Trials,
W76-00610 9-02

JONES, E. B.
Generalized Criteria for Verification of Wa Developed Through Weather Modification,
W76-01519 9-04

JONES, E. R.
Determination of Nitrate in Water Samp Using A Portable Polarographic Instrument,
W76-02506 9-06

JONES, G.
Chlorination of Organics in Cooling Waters Process Effluents,
W76-12882 9-24

JONES, G. B.
Molybdenum in a Nearshore and Estuarine vironment, North Wales.
W76-06000 9-12

JONES, G. D.
Chemical Composition and Yield of Soybe as Affected by Irrigation and Deep Placem of Lime, Phosphorus and Potassium,
W76-06338 9-13

Effects of Fertilization and Irrigation on Yi and Potassium Content of Alfalfa and Available Soil Potassium,
W76-06243 9-13

JONES, G. E.
Combined Treatment of Leather Tanning Municipal Wastes at Grand Haven, Michigan
W76-08294 9-16

JONES, G. L.
Microbiology and Activated Sludge,
W76-09172 9-17

JONES, G. P.
Management of Underground Wa Resources,
W76-00418 9-01

ONES, H. R.
Pollution Control in Meat, Poultry and Seafood Processing,
W76-12146 9-22 5D

ONES, J. D.
Historical Changes in Mercury Contamination in Michigan Walleyes (Stizostedion Vitreum Vitreum),
W76-03652 9-08 5B

ONES, J. E.
Quantitative Relationship Between Reflectance and Transpiration of Phreatophytes--Gila River Test Site,
W76-12802 9-24 2D

Relation of the Consumptive Use Coefficient to the Description of Vegetation,
W76-05843 9-12 2D

The Role of Environmental Data Banks in Energy Resource Development,
W76-11609 9-21 5G

ONES, J. I.
The OCS Forgotten Land: Territorial Sea, Nearshore, and Estuary,
W76-09330 9-17 5G

ONES, J. K.
Fecal Coliform Pollution in an Agricultural Environment,
W76-04432 9-09 5B

ONES, J. R.
Generalized Geologic Framework of the National Reactor Testing Station, Idaho,
W76-01191 9-03 8E

ONES, K. S.
Ground Water Conditions in Greater Tehran,
W76-00414 9-01 4B

ONES, L. L.
Adjustments Due to a Declining Groundwater Supply: High Plains of Northern Texas and Western Oklahoma,
W76-10874 9-20 4B

Economic Effects of Land Subsidence Due to Excessive Groundwater Withdrawal in the Texas Gulf Coast Area,
W76-03099 9-07 4B

ONES, L. W.
Removing Oil from Waste Water with Sulfur,
W76-11838 9-22 5G

ONES, M. B.
Effects of Copper on Survival and Osmoregulation in Marine and Brackish Water Isopods (Crustacea),
W76-12333 9-23 5C

ONES, M. K.
Design for Joint Treatment of Municipal and Paper Mill Waste at Lynchburg, Virginia,
W76-00042 9-01 5D

ONES, M. W.
Some of the Effects of Domestic Sewage Discharge into Hickman and Jessamine Creeks in Jessamine County, Kentucky,
W76-05841 9-12 5B

ONES, O. R.
Economics of Land Leveling for Dryland Grain Production,
W76-01692 9-04 3F

ONES, P. H.
Nutrient Transformations in a Swine Waste Oxidation Ditch,
W76-00429 9-01 5D

A Study of a Full-Scale Swine Waste Disposal System,
W76-04425 9-09 5D

Treatment in Municipal Plants: Innovations for Removal of Phosphorus,
W76-01279 9-03 5D

ONES, R.
Comparative Studies of Plant Growth and Distribution in Relation to Waterlogging: VII. The Influence of Water-Table Fluctuations on Iron and Manganese Availability in Dune Slack Soils,
W76-12708 9-24 2I

Nutrient and Phytoplankton Studies of Llangorse Lake, A Eutrophic Lake in the Brecon Beacons National Park, Wales,
W76-01167 9-03 5C

ONES, R. A.
Central Sierra Profiling Snow Gage: A Guide to Fabrication and Operation,
W76-12158 9-23 2C

Development of a Radioactive Isotope Profiling Snow Gage,
W76-12159 9-23 2C

ONES, R. B.
Industrial Waste Treatment System Reduces Pollution,
W76-08711 9-16 5D

ONES, R. C.
Bonding Mechanisms for Soil Crusts: Part I. Particle Surfaces and Cementing Agents,
W76-00520 9-02 2G

ONES, R. D.
Acid Rock in the Great Smokies: Unanticipated Impact on Aquatic Biota of Road Construction in Regions of Sulfide Mineralization,
W76-03770 9-08 5C

Benthic Invertebrates,
W76-05877 9-12 5C

ONES, R. E.
The Effects of Size-Selection Predation and Environmental Variation on the Distribution and Abundance of a Chironomid, Paraborniella Tonnoiri Freeman,
W76-06130 9-12 2I

ONES, R. H.
Raw Sewage Coagulation and Aerobic Sludge Digestion,
W76-12859 9-24 5D

Results of Ocean Diffusion and Biological Studies of the Hollywood, Florida, Ocean Outfall,
W76-11938 9-22 5B

ONES, R. L.
Cadmium and Zinc Contents of Corn Leaf and Grain Produced by Sludge-Amended Soil,
W76-06304 9-13 5A

ONES, R. M.
Floating Structure Arrangement,
W76-10465 9-19 8A

ONES, R. S.
Getting the Most Out of an Infiltration/Inflow Analysis,
W76-06985 9-14 5D

ONES, S. H.
Channel Erosion Surveys Along Taps Route, Alaska, 1974,
W76-08559 9-16 2J

ONES, S. J.
Brittle Fracture of Ice at 77 K,
W76-05673 9-12 2C

ONES, V.
Correlation Analysis of Wind and Ice Drift Data Taken at Lincoln Bay 1972,
W76-04322 9-09 2C

ONES, W. F.
The Eradication of the Seaweed Sargassum Muticum from Britain,
W76-09989 9-18 5G

ONES, W. M.
Cycling of Fe55 and Zn65 in Columbia River Carp Following Reactor Shutdown,
W76-09508 9-18 5C

ONSSON, I. G.
Experimental and Theoretical Investigations in an Oscillatory Turbulent Boundary Layer,
W76-10916 9-20 8B

OPLING, W. F.
Organics, Water, and Health: A Reuse Problem,
W76-01789 9-04 5D

ORDAN, D. G.
Ground Water Contamination in Indiana,
W76-00276 9-01 5B

A Survey of the Water Resources of St. Croix, Virgin Islands,
W76-04399 9-09 4A

ORDAN, E.
Comparison of Two Methods for Determination of Primary Productivity on Coastal Waters of the Gulf of Mexico, (In Spanish),
W76-09391 9-17 5A

ORDAN, P. R.
Physical and Climatic Characteristics Along Kansas Streams,
W76-06450 9-13 7C

ORDAN, T. A.
Physicochemical Approach to Water and Wastewater Filtration,
W76-02873 9-06 5D

ORDEN, R. M.
Lime-Induced Reactions in Municipal Wastewaters,
W76-05597 9-12 5D

ORDENING, D. L.
Bibliography of Water Pollution Control Benefits and Costs,
W76-03298 9-07 5G

Economic Analysis of Effluent Guidelines: Apple, Citrus and Potato Processing Segments of the Canned and Preserved Fruits and Vegetable Industry,
W76-09779 9-18 5G

ORGENSEN, J. R.
Simulation of Nitrogen Distribution and Its Effect on Productivity in Even-Aged Loblolly Pine Plantations,
W76-10271 9-19 5B

JORGENSEN, P.
Weathering and Hydrogeology of the Brumundal Sandstone, Southern Norway,
W76-06676 9-13 2F

JORGENSEN, S. E.
Ammonia Removal by Use of Clinoptilolite,
W76-09180 9-17 5D

Do Heavy Metals Prevent the Agricultural Use of Municipal Sludge,
W76-03409 9-07 5E

An Ecological Model for Heavy Metal Contamination of Crops and Ground Water,
W76-11885 9-22 5B

A Eutrophication Model for a Lake,
W76-12515 9-23 5C

Investigation of Phosphorus Removal from Water,
W76-04183 9-09 5D

Ion Exchanger for the Treatment of Waste Water,
W76-05962 9-12 5D

JORGENSON, D. W.
Energy Policy and Economic Growth,
W76-09606 9-18 6A

JOSEPH, J. J.
Design and Performance of Physical-Chemical and Activated Sludge Treatment for an Edible Oil Plant,
W76-08293 9-16 5D

JOSEPHSON, J.
Finland's Cleanup Campaign,
W76-00631 9-02 5G

JOSHI, V. G.
The Application of Step-Drawdown Pumping Tests for Determining Well Losses in Consolidated Rock Aquifers,
W76-02747 9-06 4B

JOSHIPURA, P. B.
Some Observations Regarding Pentachlorophenol Levels in Haverford Township, Pennsylvania,
W76-12591 9-23 5B

JOSKOW, P. L.
Energy Consumption and Fuel Choice by Residential and Commercial Consumers in the United States,
W76-09609 9-18 6A

JOSTI, J.
Wastewater Plant will Use no Chemicals for Sludge Conditioning,
W76-09161 9-17 5D

JOTSOVA-BAURENSKA, N.
Dependence of Stomatal Number and Size in Juglans Regia L. on Ecological Conditions, (In Bulgarian),
W76-08668 9-16 2I

JOUZEL, J.
Isotopic Study of Hail,
W76-05665 9-12 2B

JOYCE, M.
Replacement of Activated Sludge Secondary Clarifiers by Dynamic Straining,
W76-02662 9-06 5D

JOYNER, T.
First Stages Towards Ranching Salmon on Ocean Ranges,
W76-12949 9-24 6B

Toward a Planetary Aquaculture--The Seas as a Range and Cropland,
W76-04537 9-10 6C

JUAN,
Periodicity in the Biometric Variations of Loxechinus Albus Molina, (In Spanish),
W76-09089 9-17 2I

JUDAH, O. M.
Finite Element Simulation of Flood Hydrographs,
W76-00303 9-01 2E

JUDD, B. I.
Plant Survival in the Arid Southwest 30 Years After Seeding,
W76-13128 9-24 4A

JUDD, J. H.
Environmental Changes in a Portion of Lake Ontario Following Pollution Abatement,
W76-09119 9-17 5C

JUDD, L. W.
Plant Survival in the Arid Southwest 30 Years After Seeding,
W76-13128 9-24 4A

JUDGE, R. M.
Cognitive Strawman: Public Input to A Water Resource Planning System,
W76-01110 9-03 6B

Cognitive Strawman: Public Input to a Water Resource Planning System,
W76-06548 9-13 6B

JUNG, G. A.
Effects of Grazing on Infiltration Rates in Waste Water Spray Fields,
W76-03124 9-07 5D

Effects of Grazing on Infiltration Rates in Waste Water Spray Fields,
W76-08352 9-16 5E

JUNG, J.
The Leaching Behavior of Different Nitrogen Sources in Lysimeter Experiments, (In German),
W76-09793 9-18 2G

JUNIPER, C.
Development of Snow Water Equivalent Survey Methods Using Airborne Gamma Measurements,
W76-06659 9-13 2C

JUNK, G. A.
Organics in Drinking Water, Part I-Listing of Identified Chemicals,
W76-03850 9-08 5A

Organics in Drinking Water. Part II. Mass Spectral Identification Data,
W76-12812 9-24 5A

JUNKER, W.
Apparatus for Continuous Dewatering of Aqueous Suspensions,
W76-08202 9-16 5D

JUNOD, A.
Meteorological Influences of Atmospheric Cooling Systems as Projected in Switzerland,
W76-04814 9-10 5B

JUPITER, C.
Soil Moisture Survey Experiment at Phoenix, Arizona, Date of Survey: March 18, 1975,
W76-06664 9-13 2G

JURGENS, S.
Relationship of Crop Metabolism and Wa Status to Irrigation Need,
W76-01512 9-04

JURINAK, J. J.
Surface Runoff and its Effect on Diffuse S Production From Mancos Shale Members,
W76-06583 9-13

JURIS, S.
Several Facts About the Changes in the Qua ty of the Phytoplankton of the Danube, Czech),
W76-07300 9-14

JURKIEWICZ, S.
Need for an Integral Approach to to Problem of Quantitative Determination Lignosulfonic Acids in Mill Effluents and S face Waters (O potrzebie kompleksowego mowania problemu ilosciowego oznacza kwasow ligninosulfonowych w sciek pocelulozowych i wodach powierzchniowych
W76-09277 9-17

JURKOVICH, J. C.
Optimal Operating Policy for Multi Metropolitan Water Supply Reservoir Syste Theory and Applications, (Vol 1),
W76-10604 9-20

JURY, W. A.
Model for Predicting Simultaneous Movem of Nitrate and Water Through a Loamy Sand
W76-12985 9-24

Solute Travel-Time Estimate for Tile-Drai Fields: II. Application to Experimental Studi
W76-05905 9-12

Solute Travel-Time Estimates for Tile-Drai Fields: I. Theory,
W76-05904 9-12

JUTILA, J. W.
Water Quality and Waste Disposal in Montan
W76-12359 9-23

KAARSTAD, O.
Runoff Measurement in Small Catchm Areas: Registration and Presentation of Da (In Norwegian),
W76-03280 9-07

KAATZ, R. H.
Anchoring Device for a Flexible Sprink Hose,
W76-01724 9-04

KABEYA, H.
Sequential Treatment of Kraft Pulp Washi Wastewater by Pilot Plant: Activated Slud Treatment, Lime Treatment, and Activat Carbon Adsorption Treatment (In Japanese),
W76-10854 9-20

KACHADOORIAN, R.
Earthquake: Correlation Between Pipeli Damage and Geologic Environment,
W76-07124 9-14

KACHALKIN, V. I.
Microbiological Production of Hydrogen Su phide in the Veisovo Lake (Slavyansk Lake (In Russian),
W76-07278 9-14

Participation of Microorganisms in Sulfur Tu nover in Pomiaretzkoe Lake, (In Russian),
W76-01774 9-04

CHWAHA, M. S.
Financing and Management of the Proposed Sewerage Scheme for Jaipur Town,
W76-05062 9-11 5D

CZMAREK, Z.
Models of Hydrologic Forecasts,
W76-04966 9-10 4A

DDAH, M. T.
Field Leaching by Sprinkler and Surface Irrigation During a Crop Season,
W76-01081 9-03 4B

Salt and Water Balance in Imperial Valley, California,
W76-08331 9-16 3C

DLEC, J. A.
State-Of-The-Art Survey and Evaluation of Marsh Plant Establishment Techniques: Induced and Natural; Volume I: Report of Research,
W76-06635 9-13 4A

State-of-the-Art Survey and Evaluation of Marsh Plant Establishment Techniques: Induced and Natural; Volume II: A Selected Annotated Bibliography on Aquatic and Marsh Plants and their Management,
W76-06636 9-13 4A

ADLECOVA, O.
Contamination of the Danube in Bratislava by Sewage 2nd Communication (Die Salmonella-Verunreinigung der Donau Durch Abwasser in Bratislava 2. Mitteilung),
W76-03344 9-07 5A

ADRY, L. T.
Near East Applied Research Programme for Land and Water Development,
W76-01891 9-04 3F

AELIN, J. R.
Apparatus for Biological Purification of an Effluent,
W76-12604 9-23 5D

Method and Apparatus for the Purification of Aqueous Effluent,
W76-02205 9-05 5D

Method of Processing Refuse and/or Sludge and A Plant for Carrying out the Method,
W76-11218 9-21 5D

Sewage Treatment Plant,
W76-02856 9-06 5D

Surface Ventilation Rotor,
W76-02209 9-05 5D

AERCHER, R. L.
Sludge Incinerators in Use Today that Meet the Requirements of State and Federal Regulations,
W76-05082 9-11 5E

AFANOV, A. I.
Contribution to Epizootology of Schistocephalus Pungitii (Ligulidae) in the Manych-Gudilo Lake, (In Russian),
W76-12273 9-23 5C

AFKAFI, U.
Combined Irrigation and Fertilization of Tomatoes Grown on Sand Dunes,
W76-13127 9-24 3C

KAGAN, J. A.
Mechanical-Draft Cooling Tower Visible Plume Behavior: Measurements Models, Predictions,
W76-04817 9-10 5B

KAGAN, R. S.
An Overview of the Precipitation Processing System at the Southwest Watershed Research Center,
W76-13132 9-24 7C

KAGASOV, V. M.
Intensification of the Biochemical Purification of Phenolic Waste Waters in Aeration Tanks (Intensifikatsiya biokhimicheskoy ochistki fenolsoderzhashchikh stochnykh vod v aerotenkakh),
W76-05491 9-11 5D

KAGASOVK, V. M.
Removal of Oils from Waste Waters (Ochistka stochnykh vod ot masel),
W76-00124 9-01 5D

KAGIYA, V. T.
Radiation Recycling Process of Waste Poly(Tetrafluorethylene) Scrap,
W76-09556 9-18 5D

KAHANOVITCH, Y.
Lindane Residues in the Southern Coastal Aquifer of Israel,
W76-07396 9-14 5B

KAIBARA, R.
The Heavy Metal Concentrations in the Waters Along the Coast of Fukuyama, (In Japanese),
W76-09815 9-18 5A

KAIDA, Y.
Studies on the Removal of Heavy Metal Ions From Waste Water by Flotation Method with Anionic Surfactant I. - Removal of Traces of Cadmium Ion with Sodium Dodecylbenzene Sulphonate, (In Japanese),
W76-07524 9-15 5D

KAJAK, Z.
Experimentally Increased Fish Stock in the Pond Type Lake Warniak. IX. Numbers and Biomass of Bottom Fauna,
W76-03539 9-08 2H

KAJIHARA, T. U. Y.
Sessile Animals on Tar Globules in the Waters Around the Ryukyu Islands, (In Japanese),
W76-08232 9-16 2L

KAJIYAMA, S.
Continuous Determination of Toc and Tod (Toc, Tod no renzoku sokutei),
W76-07010 9-14 5A

KAKA, G. F.
Comparative Evaluation of Climatic Factors and Conditions at Fudhaliya Agro-Meteorological Station and Baghdad Airport Meteorological Station,
W76-09067 9-17 2B

Comparative Evaluation of Yearly Climatic Factors with the Five Years Averages for Fudhaliya Agro-Meteorological Station,
W76-09066 9-17 2B

KAKAR, Y. P.
Automated Dilution for Measurement of Nitrate in Water,
W76-05594 9-12 5A

Modified Curcumin and Dianthrimide Methods for the Determination of Boron in the Presence of High Levels of Nitrate and Organics,
W76-10937 9-20 5A

KAKUMOTO, S.
Method and Apparatus of Treating Industrial Waste Liquid,
W76-02603 9-06 5D

KAL'YANOV, K. S.
Forecasting the Occurrence of Wind Erosion of Soil, (In Russian),
W76-00362 9-01 2J

KALAJIAN, E. H.
Sediment Analysis of the Lagoonal Complex Surrounding KSC (Kennedy Space Center),
W76-01897 9-04 2L

KALAPOTHAKI, V.
Isolation of Water Vibrios in Greece, (In French),
W76-09601 9-18 5A

KALDJIAN, M.
Economics of Great Lakes Bulk Carriers in Winter Operations,
W76-02384 9-05 6B

KALELKAR, A.
Appendices to: Survey Study to Select a Limited Number of Hazardous Materials to Define Amelioration Requirements,
W76-01902 9-04 5A

KALIK, M. S.
Drought and Agriculture,
W76-06265 9-13 2B

KALINICHENKO, L. T.
Hygienic Evaluation of Epoxy Compositions Intended for Use in Water Supply, (In Russian),
W76-03561 9-08 5C

KALININ, G. P.
From Aerospace Photographs to Forecasting and Calculating Flows,
W76-04325 9-09 7B

Level of Closed Bodies of Water as One of the Criteria of Global Water Exchange,
W76-06179 9-13 2A

KALININA, A. A.
Bacterioplankton Reproduction in Phials with Filtered Water, (In Russian),
W76-12319 9-23 5C

KALINKIN, G. F.
Legal Regulation of Seabed Uses Beyond the Limits of the Continental Shelf,
W76-12033 9-22 6E

KALINSKE, A. A.
Handling of Solids and Liquid Sidestreams Resulting from Watereuse Operations,
W76-05317 9-11 5D

KALINSKI, A. A.
Sludge Disposal Alternatives,
W76-06292 9-13 5E

KALISH, J.
Massive SSL Pollution Project Completed,
W76-04229 9-09 5D

KALKWIJK, J. P. TH.
Mass Transport in Gravity Waves on a Sloping Bottom,
W76-12190 9-23 2L

KALLQVIST, T.
Algal Growth Potential of Six Norwegian Waters Receiving Primary, Secondary and Tertiary Sewage Effluents,
W76-08794 9-17 5C

Thermal Effects on Marine Biota in Experimental Systems,
W76-08877 9-17 5C

KALLSTROM, L.
Optimizing Centrifuge Decantation for Sludge Thickening (Optimisation Des Decanteuses Centrifuges Pour La Concentration Des Bous),
W76-10217 9-19 5D

KALMYCHKOV, G. V.
Effect of Phenols and their Oxidation Products on Aquatic Plants and Content of Sulfhydryl Groups in Them, (In Russian),
W76-05276 9-11 5C

KALNINYA, A. K.
Sr90 Distribution in Water and Bottom Sediments of Latvian Lakes,
W76-06871 9-14 5B

KALNINYA, S. K.
Sr90/Sr Ratio in Plankton of Latvian Lakes of Various Types,
W76-06870 9-14 5C

KALNINYA, Z. K.
Sr90 in Water, Bottom, and Water Organisms in Latvian Lakes of Various Types,
W76-06867 9-14 5B

Study of Sr90/Sr Ratio in a Latvian Seaside Lake,
W76-06869 9-14 5C

Study of the Strontium 90/Strontium Isotope Balance in a Latvian Lake, (In Russian),
W76-06733 9-13 5A

KALTER, R. J.
Evaluation of Public Investments: Distributional Impacts of Water Resource Projects,
W76-04530 9-10 6B

KALTIN, B.
Modern Drying Techniques in the Paper and Pulp Industry (Modern Torkteknik Inom Pappers-Och Cellulosaindustri),
W76-02807 9-06 5D

KALYANARAMAN, S.
The Extraction of Osmium with Tributyl Phosphate and Photometric Determination with Thiourea,
W76-03408 9-07 5A

KALYUZHNYY, I. L.
Hydrochemical Regime and Chemical Composition of Oligotrophic Bog Waters,
W76-07079 9-14 5B

Laboratory Instruments and Apparatus for Investigating the Thermophysical Interaction of Water with a Frozen Peat Deposit,
W76-07080 9-14 2G

Meltwater Losses Through Infiltration into Podzolic Soils and Chernozems,
W76-06181 9-13 2G

KAMAL, M.
Pulse-Testing Response for Unequal Pulse and Shut-In Periods,
W76-03371 9-07 4B

KAMATH, P. R.
Seasonal Feature of Thermal Abatement of Shoreline Discharges at Nuclear Sites,
W76-08862 9-17 5G

KAMAYA, M.
Desalination Process by Improved Multistage Electrodialysis,
W76-05980 9-12 3A

KAMCHATOVA, I. E.
Analysis of Sulfur-Containing Products Accumulated by Chlorella Mutants,
W76-05476 9-11 5C

KAMEI, H.
DDC Process of Saikawa Water Treatment Plant in Kanazawa City,
W76-03339 9-07 5F

KAMEN, C. S.
A Reconsideration of the 'Requirement Approach' to Residential Water Use Forecasting,
W76-04964 9-10 6D

Socioeconomic Factors Affecting Domestic Water Demand in Israel,
W76-04556 9-10 6D

KAMIHARU, T.
A Survey of Chiba Municipal Central Sewage Treatment Plant (Chiba-shi chuo gesui shorijo no gaiyo),
W76-08022 9-15 5D

KAMIJO, H.
A Biological Study on the Pollution of the Sai-Gawa River and its Tributaries, Ishikawa Prefecture, (In Japanese),
W76-10973 9-20 5B

KAMISHIMA, H.
Sequential Treatment of Kraft Pulp Washing Wastewater by Pilot Plant: Activated Sludge Treatment, Lime Treatment, and Activated Carbon Adsorption Treatment (In Japanese),
W76-10854 9-20 5D

KAMPHUIS, J. W.
Coastal Mobile Bed Model - Does it Work,
W76-10428 9-19 2L

KAMPPINEN, T. L.
NPDES Permit System and Guidelines for Michigan Presented at the Agricultural Waste Conference, Michigan State University,
W76-00473 9-01 5B

KAMRA, L. C.
Spectrophotometric Determination of Ruthenium with 3- (2-Pyridyl) -5, 6-Diphenyl-1,2,4-Triazine,
W76-03299 9-07 5A

KANA, T. M.
Drought-Stress Avoidance in Three Pioneer Tree Species,
W76-00872 9-02 2I

KANAMARU, N.
Reverse Osmosis Separation Apparatus,
W76-05990 9-12 3A

KANAMORI, M.
Method of Extracting Heavy Metals from Industrial Waste Waters,
W76-05966 9-12 5D

KANAMORI, S.
An Evaluation of the Miller Method for Dissolved Oxygen Analysis,
W76-12144 9-22 5A

KANAPATHY, K.
Acidity, Acid Sulphate Soils and Liming Padi Fields,
W76-07227 9-14 3

KANARI, S.
The Long-Period Internal Waves in Lake Biw
W76-01845 9-04 2

KANAROWSKI, S. M.
Evaluation of Bentonite Clay for Waterproo ing Foundation Walls Below Grade,
W76-08427 9-16 8

KANDA, T.
Biodegradation of Components of Pulp Was Effluents by Bacteria, (2) On the Degradati of Lignin Sulfonates,
W76-05485 9-11 5

Biodegradation of Components of Pulp Was Effluents by Bacteria. (3). Degradation of Li nin Preparation from Waste Liquor of Oxyge Alkali Pulping (In Japanese),
W76-10840 9-20 5

KANE, D. L.
Heat and Mass Transfer in Cold Region Soils,
W76-03001 9-07 2

Winter Soil Water Dynamics,
W76-03002 9-07 2

KANE, L. K. II.
Measurement and Analysis of Temporal Vari tions of Salinity in Shallow Water,
W76-02542 9-06 2

KANE, R.
Precipitation: Its Acidic Nature,
W76-00900 9-02 2

KANEDA, K.
Oil Adsorbent,
W76-12409 9-23 5

KANEHIRO, Y.
Field Study of Solute Movement in a High Aggregated Oxisol with Intermittent Floodin II. Picloram,
W76-00718 9-02 5

KANEKO, A.
Studies on Characteristics of the Surface Wat Quality in Kameda District,
W76-07007 9-14 5

KANEKO, T.
Bacteriological Studies of Wicomico Riv Soft-Shell Clam (Mya Arenaria) Mortalities,
W76-00873 9-02 5

KANEMASU, E. T.
Canopy Temperature Measurement of Sorghu and Millet with Leaf Thermocouple and I frared Thermometer Techniques,
W76-08590 9-16 2

An Evaluation of a Resistance Form of th Energy Balance to Estimate Evapotranspir tion,
W76-08587 9-16 2

Great Plains Evapotranspiration by a Re sistance Model Using Remotely Sensed The mal Imagery,
W76-08585 9-16 2

Thermal Scanner Measurements of Crop Tem peratures to Estimate Evapotranspiration,
W76-08591 9-16 2

ANERT, G. A.
The Separation of Rhodium and Iridium by Anion-Exchange,
W76-02888 9-06 5A

ANEVISKII, Y. P.
K, Rb, and Cs Exchange Dynamics in Fish and Lamprey Migrating from Sea to Fresh Water (Before Spawning),
W76-06877 9-14 5C

ANEVSKII, Y. N.
Environmental Na22 in Freshwater Ecosystem Studies,
W76-06874 9-14 5C

ANEVSKII, Y. P.
Differences in the Specific Activity of Cs137 in the Components of a Freshwater Ecosystem,
W76-06882 9-14 5C

ANG, S. J.
Measurement of Active Biomass Concentrations in Biological Waste Treatment Processes,
W76-02268 9-05 5D

ANTAWLA, D.
Studies on Aerobic Cultivation of Yeast to Reduce Pollution Potential of Distillery Wastes,
W76-04228 9-09 5D

ANTHA, L. H.
Turbulent Entrainment at the Density Interface of a Two-Layer Stably Stratified Fluid System,
W76-11871 9-22 2L

ANWAR, R. S.
A Simplified Approach for the Analysis of Unsteady Flow to a Cavity Well,
W76-07561 9-15 2F

AO, D. T. Y.
Analysis of the Sediment Filtering Action of Grassed Media,
W76-04009 9-09 4D

AO, S. E.
Parameter Influence on Runoff Modeling,
W76-04930 9-10 2A

AO, T. W.
Selective Withdrawal Criteria of Stratified Fluids,
W76-12970 9-24 8B

APILASHRAMI, S.
Chemical Precipitation of Wastewaters with Lime (Kemisk fallning av avloppsvatten med kalk),
W76-05585 9-12 5D

APKOV, V. T.
Toxicity of Copper Complexes to Freshwater Mollusks,
W76-02780 9-06 5C

APLAN, A. M.
A Chemical-Biological Treatment Process for Cellulose Nitrate Disposal,
W76-11395 9-21 5D

Process for Treating Waste Water Containing Cellulose Nitrate Particles,
W76-05575 9-12 5D

APLIN, V. T.
Mechanism of Conversion of Lignin and its Derivatives in Natural Waters (Mekhanizm prevrashcheniya lignina i ego proizvodnykh v prirodnoj vode),
W76-09280 9-17 5B

KAPPENBERGER, G.
Temperature Measurement of Ice and Water Surfaces in the North Water Area Using an Airborne Radiation Thermometer,
W76-05389 9-11 7B

KAPPLE, G. W.
Rainfall-Runoff Relation for Redwood Creek Above Orick, California,
W76-03903 9-08 2A

KAPRE, B. R.
Treatment and Disposal of Wastewater from Onion Dehydration Factory at Satpur, Nasik,
W76-07533 9-15 5D

KARADI, G. M.
Water Quality Effects of a Dredging Disposal Area,
W76-08749 9-16 5C

KARANIK, J. M.
Give Stormwater Pollutants the Spin,
W76-09461 9-18 5D

KARASEK, F. W.
Environmental Chemistry in the Netherlands,
W76-01734 9-04 5A

KARASEVA, N. N.
Use of the Bulrush in Water Management, (In Russian),
W76-07449 9-14 4A

KARASIK, V. M.
Device for Aerating Water Bodies, (In Russian),
W76-12311 9-23 5G

KARAU, J.
Water Transport of Wood: The Current Situation,
W76-04261 9-09 5G

KARAVAEVA, E. N.
Effect of the Soil Moisture Regime on the Passage of Strontium-90, Cesium-137 and Cerium-144 from Soil into Solution, (In Russian),
W76-12868 9-24 5B

KARBE, L.
The Influence of Water Quality on Accumulation of Heavy Metals in Aquatic Organisms,
W76-08456 9-16 5C

KARDOS, L. T.
Oxygen Relationships in a Soil Treated with Sewage Effluent,
W76-08231 9-16 5D

Reclamation of A Burned Anthracite Refuse Bank with Municipal Sludge,
W76-10249 9-19 5E

Revegetating Bituminous Strip-Mine Spoils with Municipal Wastewater, Part I: Grass and Legume Establishment,
W76-03821 9-08 5E

Revegetating Bituminous Strip-Mine Spoils with Municipal Wastewater, Part II: Quality the Leacheate and Spoil Chemical Changes,
W76-06343 9-13 5D

Spray-Irrigation of Treated Municipal Sewage Effluent and its Effect on Chemical Properties of Forest Soils,
W76-02521 9-06 5E

KARIM, A. G. A.
Studies on the Freshwater Algae of the Sudan. II. The Distribution of the Bacillariophyceae of Wadi Galol, Jebel Marra,
W76-05460 9-11 5C

KARIMIAN-TEHERANI, D.
Distribution of Selected Metals in Tissue Samples of Carp, Cyprinus Carpio,
W76-10082 9-19 5C

Uptake and Effect of Cadmium on Zebrafish,
W76-08772 9-17 5C

KARLSON, E. L.
Fluid Treatment Apparatus,
W76-02266 9-05 5D

Twin Belt Ion Exchange System,
W76-02254 9-05 5F

KARLSTROM, U.
A Description of the River Ricklea, Sweden, (In Swedish),
W76-04504 9-10 5B

The Energy Flow Through a Lotic Ecosystem, (In Swedish),
W76-05124 9-11 5B

Outline of Future Research Activities at Ricklea Field Station, (In Swedish),
W76-05046 9-11 5C

KARMELI, D.
Trickle Irrigation Design Parameters,
W76-01087 9-03 3F

KARNOVSKY, F.
Waste Water Aeration with Oxygen (Abwasserbelueftung Mit Sauerstoff),
W76-02190 9-05 5D

KARPATI, I.
The use of the TWR-Indicator Concept on Water and Lowland Forest Ecosystems, (In German),
W76-04963 9-10 5A

KARPATI, V.
The use of the TWR-Indicator Concept on Water and Lowland Forest Ecosystems, (In German),
W76-04963 9-10 5A

KARPE, H-J.
Environmental Policy and Developments in Water Supply in West Germany and Europe,
W76-04560 9-10 5G

KARPOV, N. M.
Geomechanical Investigations of the Rock Bases of Hydraulic Structures,
W76-04323 9-09 8E

KARPUKHIN, V. F.
Experience in the Treatment of Highly-Concentrated Spent Native Solution of Benzyl Penicillin, (In Russian),
W76-11543 9-21 5D

KARSCHON, R.
Effects of Flooding and of Irrigation Water Salinity on Eucalyptus Camaldulensis Dehn. From Three Seed Sources,
W76-09664 9-18 3C

KARSTADT, M. L.
Protecting Public Health from Hazardous Substances: Federal Regulation of Environmental Contaminants,
W76-05185 9-11 6G

KARTAR, S.
Dietary Habits and Heavy Metal Concentations in Fish from the Severn Estuary and Bristol Channel,
W76-11721 9-22 5C

Polystyrene Spherules in the Severn Estuary-A Progress Report,
W76-11819 9-22 5B

KARTIGANER, H. L.
Pretreatment Provides Constant Effluent Quality,
W76-07513 9-15 5D

KARTTUMEN, J.
Plutonium and Americium in Lake Michigan Sediments,
W76-08606 9-16 5C

KARTTUNEN, J. O.
The Distribution of Plutonium in Lake Michigan Sediments,
W76-05892 9-12 5B

Geochronology of Lake Michigan Sediments: Anomalies in Lead-210 Distributions,
W76-05885 9-12 5B

KARTVELISVILI, N. A.
River Run-Off Control,
W76-04326 9-09 4A

KASAHARA, S.
Application of System Analysis in Two-Stage Reverse Osmosis Process Design for Water Desalination,
W76-08076 9-15 3A

KASEVICH, R. S.
Directional Wave Spectra from Daylight Scattering,
W76-04301 9-09 2L

KASHEF, A-A. I.
Comparative Study of Fresh-Salt Water Interfaces Using Finite Element and Simple Approaches,
W76-02940 9-06 2L

Expansion of Salt-Water Zone Due to Well Discharge,
W76-05133 9-11 2L

KASHYAP, R. L.
Stochastic Models for Ground Water Levels,
W76-01799 9-04 4B

KASI VISWANATH, G.
Factors in the Purification of Flowing Sewage and Activated Sludge Process, Part I,
W76-05795 9-12 5D

KASPER JR, V.
Economic Considerations for Planning Sewage Sludge Disposal Systems,
W76-05083 9-11 5E

KASSAM, A. H.
Water Use, Energy Balance and Growth of Maize at Samaru, Northern Nigeria,
W76-06298 9-13 3F

KASTOR, R. L.
Controlling Well Kicks When Shut-In Methods are Unsafe,
W76-03760 9-08 8C

KATAOKA, T.
Experimental Report for Regeneration of Activated Carbon and Recalcination of Lime Sludge (Kasseitan, sekkai-oden no saisei jikken hokoku),
W76-09223 9-17 5D

KATES, M.
Isolation and Characterization of Actinopolyspora Halophila, Gen. ET SP. Nov., An Extremely Halophilic Actinomycete,
W76-08837 9-17 5C

KATO, A.
Treating Waste Water Containing Nitriles and Cyanides,
W76-07443 9-14 5D

KATO, D. A.
Spawning of Lake Whitefish, Coregonus Clupeaformis, and Round Whitefish, Prosopium Cylindraceum, in Aishihik Lake and East Aishihik River, Yukon Territory,
W76-12754 9-24 2H

KATO, S.
Recent Trends of Instrumentation, Control, and Automation Systems for Wastewater Treatment Systems (Gesuido shisutemu seigyo no doko),
W76-00604 9-02 5D

A Study of Renovation of Pulp Waste Water--Treatment of Unbleached Kraft Pulp Washing Waste Water with Lime, (In Japanese),
W76-04227 9-09 5D

KATO, T.
Experimental Report for Regeneration of Activated Carbon and Recalcination of Lime Sludge (Kasseitan, sekkai-oden no saisei jikken hokoku),
W76-09223 9-17 5D

KATOH, S.
Treatment of Kraft Pulp Wastewater With Lime (III): Treatment of the Integrated Bleaching Alkaline Water With Lime (Kurafuto parupu haisui no sekkaishor (III): Sarashi arukari sogo haisui no sekkai shori),
W76-02654 9-06 5D

KATSUKI, O.
Adsorption Treatment of Kraft Pulp Lignin Waste with Synthetic, Polymeric Adsorbents, (In Japanese),
W76-05289 9-11 5D

KATSUNOBU,
Studies on a Purified Diet of Prawn: IV. Evaluation of Protein, Free Amino Acids and Their Mixture as Nitrogen Source, (In Japanese),
W76-12992 9-24 5C

KATSURA, Y.
Regional Plant Treats Septic Wastes,
W76-05771 9-12 5D

KATTERMAN, F. R. H.
Influence of Treated Municipal Waste Water on Growth, Fiber, Acid-Soluble Nucleotides, Protein, and Amino Acid Content in Wheat Grain,
W76-03690 9-08 5E

KATZ, A. M.
A Preliminary Assessment of the Environmental Vulnerability of Machias Bay, Maine to Oil Supertankers,
W76-13087 9-24 6G

KATZ, I.
Radar Derived Spatial Statistics of Summer Rain - Experiment Description,
W76-12178 9-23 7B

KATZ, P. L.
A Model for the Study of Episodes in t
Dispersion of a Conservative Pollutant in La
Michigan,
W76-11442 9-21

KATZ, U.
The Life Cycle of California Coastal F
Onshore,
W76-01493 9-03

KATZAKIAN, A. JR.
Buffered, Weak Ion-Exchange Wa
Demineralization Process,
W76-05526 9-12

KATZENELSON, E.
Inactivation of Viruses and Bacteria by Ozon
W76-00119 9-01

KATZER, J. R.
Solubilization and Wet Oxidation of Suspend
and Dissolved Organics,
W76-01506 9-04

KATZER, T. L.
A Brief Hydrologic Appraisal of the July 3-
1975, Flash Flood in Las Vegas Valle
Nevada.
W76-12806 9-24

KAUFMAN, D. W.
Effects of Age, Sex, and Pelage Phenotype
the Elemental Composition of the Old-Fi
Mouse,
W76-10301 9-19

Prediction of Elemental Content in the Ol
Field Mouse,
W76-10302 9-19

KAUFMAN, D. Z.
Water for Project Independence,
W76-04633 9-10

KAUFMAN, G. A.
Effects of Age, Sex, and Pelage Phenotype
the Elemental Composition of the Old-Fie
Mouse,
W76-10301 9-19

Prediction of Elemental Content in the Ol
Field Mouse,
W76-10302 9-19

KAUFMAN, G. M.
A Probabilistic Model of the Oil and Ga
Discovery Process,
W76-09604 9-18

KAUFMAN, H. L.
Combined Sewage Overflows - Frequency, E
vironmental Effects, and a Corrective Progra
W76-09741 9-18

KAUFMANN, M. R.
Leaf Water Potential Response to Transpir
tion by Citrus,
W76-07256 9-14

KAUL, J. L.
A Floodplain Management Framework wit
Structural and Non-Structural Measures,
W76-09754 9-18

KAUL, S. N.
Techniques for Power Measurement for Su
face Aerator,
W76-10251 9-19

AUSCH, H.
The Effect of Water Temperature of the Incubation Time of a Pituitary Injection in Carp (Cyprinus Carpio L.) Under Field Conditions, (In German),
W76-06787 9-13 5C

AUSS, P.
The Toxicity of Crude Oil and Its Components to Freshwater Algae,
W76-09321 9-17 5C

AUSS, P. B.
The Effects of Water-Soluble Petroleum Components on the Growth of Chlorella Vulgaris Beijerinck,
W76-07716 9-15 5C

Studies on the Susceptibility of Ankistrodesmus Species to Crude Oil Components,
W76-11195 9-21 5C

AVANAUGH, M.
Optimization of Filtration for Surface Water Treatment (Optimierung Der Filtration Bei Der Oberflaechenwasserauf-Bereitung),
W76-01775 9-04 5D

AVIANI, R.
Studies on the Potential Evaporation of Lawns Under Different Conditions of Underground Water: A Comparison of Calculated Values with the Values of a Lysimeter, (In German),
W76-12757 9-24 2D

AVVAS, M. L.
Methodology for the Selection and Application of Probability Models for the Simulation of Daily Rainfall and Runoff,
W76-12994 9-24 7A

Removal of Periodicities by Differencing and Monthly Mean Subtraction,
W76-02944 9-06 2A

AWABE, K.
Instrumentation and Control for Water Works (Suidosetsubi no keisoku to seigyo),
W76-09024 9-17 5F

AWAHARA, A.
A Simple Metho dthe for Detection of Floating Oils on Water, (In Japan),
W76-04062 9-09 5A

AWAHARA, F. K.
Recent Developments in the Identification of Asphalts and Other Petroleum Products,
W76-10396 9-19 5A

AWAKAMI, H.
Belt Device for Collecting Floating Matter from Water Surface,
W76-01722 9-04 5G

Biodegradation of Components of Pulp Waste Effluents by Bacteria, (2) On the Degradation of Lignin Sulfonates,
W76-05485 9-11 5D

Biodegradation of Components of Pulp Waste Effluents by Bacteria. (3). Degradation of Lignin Preparation from Waste Liquor of Oxygen-Alkali Pulping (In Japanese),
W76-10840 9-20 5D

Oil Fence Having Directional Control Device,
W76-07441 9-14 5G

KAWALSKI, B. R.
Source Identification of Oil Spills by Pattern Recognition Analysis of Natural Elemental Composition,
W76-02397 9-05 5A

KAWAM, A.
Feasibility of Using Sewage Sludge in Highway Embankment Construction,
W76-10624 9-20 5E

KAWAMI, Y.
Studies on Electrolytic Treatment of Waste Water (I): Regeneration of Photographic Bleach Solution, (In Japanese),
W76-01662 9-04 5D

KAWAMURA, M.
Soil Stabilization for Erosion Control,
W76-06639 9-13 4D

Stabilization of Clay Soils Against Erosion Loss,
W76-06640 9-13 4D

KAWAMURA, S.
Design and Operation of High-Rate Filters-Part 1,
W76-03665 9-08 5D

Design and Operation of High-Rate Filters--Part 2,
W76-05831 9-12 5D

Design and Operation of High-Rate Filters--Part 3,
W76-05832 9-12 5F

KAWANISHI, T.
Waste Water Disposal of Painting Factory and Closed-Systematization (Toso kojo no haisui shori to kurozudo-shisutemu ka),
W76-00133 9-01 5D

KAWARA, O.
On The Ozone Treatment as Pre-Treatment of Activated Sludge (Kassei oden shori no maeshori to shiteno ozon shori),
W76-03215 9-07 5D

KAWASAKI, I.
Preparation of Activated Sludge and Treatment of Waste Water Therewith,
W76-05028 9-11 5D

KAWASHIMA, K.
Studies of Paragonimus Ohirai Miyazaki: 1939 and P. Sadoensis Miyazaki Et Al. 1968 Found in Noto Peninsula, Ishikawa Prefecture: Japan, (In Japanese),
W76-07991 9-15 5C

KAWATA, K.
Chlorination and Iodination of Poliovirus and F2,
W76-09196 9-17 5A

Virus Removal in an Activated Sludge Plant,
W76-10230 9-19 5D

KAWATACHI, A. S.
Groundwater Pollution From Sanitary Landfill Leachate, Oahu, Hawaii,
W76-02733 9-06 5A

KAY, D. A.
Alternate Approaches to Order: International Ocean Organization and Their Regulatory Functions,
W76-07341 9-14 6E

KAY, D. G.
The Macro-Invertebrate Fauna of the Intertidal Soft Sediments of South East England,
W76-03764 9-08 5B

KAY, J. J.
Miami Sewer Plan takes the Positive Approach,
W76-01456 9-03 5D

KAYE, S. V.
Bioaccumulation Factors for Radionuclides in Freshwater Biota,
W76-04846 9-10 5C

A Radiological Assessment of Radionuclides in Liquid Effluents of Light Water Nuclear Power Stations,
W76-04836 9-10 5C

KAYES, T. B.
Lake Wingra, 1837-1973: A Case History of Human Impact,
W76-05997 9-12 5C

KAYUPOVA, G. A.
Light-Induced Transformations of the Pigment Complex in Anacystis Nidulans,
W76-05479 9-11 5C

KAZACOS, M. N.
Selenium and Heavy Metals in Black Marlin,
W76-11716 9-22 5C

KAZAKOVA, N. F.
Utilization of All Wastes (Vse otkhody -- V delo),
W76-02509 9-06 5E

KAZAMA, T.
Mass Destruction of Synthliboramphus Antiquus by Oil Pollution of Japan Sea,
W76-11562 9-21 5C

KAZARINOVA, N. F.
Determination of M-Phenylenediamine in Water, (In Russian),
W76-11730 9-22 5A

KAZLOVA, ZH. I.
Role of Groundwaters in Redistribution of Solar Radiation by a Phytocenosis, (In Belorussian),
W76-08665 9-16 2I

Soil Moisture Regime and Pigment Content in Leaves of Cereals, (In Belorussian),
W76-08304 9-16 3F

KAZMANN, R. G.
Cyclic Storage of Fresh Water in Saline Aquifers,
W76-01811 9-04 4B

Fresh Water Can be Stored in Saline Aquifers,
W76-10107 9-19 4B

KEATING, E. J.
Eutrophication of an Inland Lake in Ireland in Association with the Intensification of Pig Farming in the Catchment Areas,
W76-05629 9-12 5C

KEAY, W. L.
Computer Aided Planning of a Regional Disposal System for Municipal Sludge,
W76-11647 9-22 5D

KEEFE, T. T.
Multivariate and Sequential Statistical Procedures in the Biological Assessment of Water Quality,
W76-06561 9-13 5A

KEEFER, T. N.
Application of Simple Dam Break Routing Model,
W76-11084 9-20 8B

Simplified Routing of Dam Break Waves,
W76-11085 9-20 4A

KEEFER, W. J.
Performance of Automatic Wastewater Compositions,
W76-03698 9-08 5A

KEEFFER, W. J.
Quality Control Starts at the Pipe,
W76-03694 9-08 5A

KEELEY, J. W.
Ground Water Problems Associated with Well-Drilling Additives,
W76-08902 9-17 5B

KEEN, E.
The Role of the Academic in Water Resources Policy-Making: The Tijuana River, A Case Study,
W76-01359 9-03 6B

KEEN, R. E.
Public Law 92-500-- Water Quality Analysis and Environmental Impact Assessment, Technical Report (Volume I),
W76-11806 9-22 5G

Public Law 92-500--Water Quality Analysis and Environmental Impact Assessment, Technical Report, Volume II,
W76-11807 9-22 5G

KEENE, K. M.
Water Resources of Gove, Logan, and Wallace Counties, West-Central Kansas,
W76-00093 9-01 7C

KEENE, O. D.
Some Potential Uses for Dehydrated Poultry Wastes,
W76-00482 9-01 5D

KEENEY, D. R.
Nutrient Mass Balance in Columns Representing Fill Systems for Disposal of Septic Tank Effluents,
W76-09164 9-17 5E

Sources and Fate of 'Available' Nitrogen in Rural Ecosystems,
W76-01031 9-03 5B

KEENEY, R. L.
Evaluating Tisza River Basin Development Plans Using Multiattribute Utility Theory,
W76-12534 9-23 4A

KEFFER, W. J.
An Evaluation of Automatic Wastewater Compositors,
W76-10652 9-20 5A

KEIBER, S. W.
The Harvesting of Algae as a Food Source from Wastewater Using Natural and Induced Flocculation Techniques,
W76-03571 9-08 5D

KEINATH, T. M.
Restoring the Quality of Urban Receiving Waters: Interfacing Upgraded Treatment Facilities with the Stream,
W76-05839 9-12 5D

Waste water Renovation and Reuse: State of the Art,
W76-03836 9-08 5D

KEITH, D. E.
A Simple Continuous-Flow Respirometer for Comparative Respiratory Changes in Medium-Sized Aquatic Organisms,
W76-08353 9-16 5C

KEITH, J. E.
The Demand for Agricultural Water in Utah,
W76-02383 9-05 6D

The Economic Efficiency of Inter-Basin Agricultural Water Transfer in Utah: A Mathematical Programming Approach,
W76-01341 9-03 4A

Economics of Soil Treatments in the Upper Colorado,
W76-02674 9-06 4D

Regional Development: An Econometric Study of the Role of Water Development in Effectuating Population and Income Changes,
W76-03137 9-07 6B

KEITH, J. M.
Engineering and Ecological Evaluation of Artificial-Island Design, Rincon Island, Punta Gorda, California,
W76-09903 9-18 2L

KEITH, L. H.
Analysis of Organic Compounds in Two Kraft Mill Wastewaters,
W76-07245 9-14 5A

Chemical Characterization of Industrial Wastewaters by Gas Chromatography-Mass Spectrometry,
W76-06008 9-12 5A

KEITH, V. F.
An Analysis of Oil Outflows Due to Tanker Accidents,
W76-09313 9-17 5B

KEITHLY, J. L.
A Study of the Benthic Algae in the Kelp Bed Off Del Monte Beach, Monterey, California,
W76-01153 9-03 5C

KEIZER, P. D.
Effectiveness and Toxicity of an Oil Dispersant in Large Outdoor Salt Water Tanks,
W76-11824 9-22 5C

Effects of Low Concentrations of Oil Accommodated in Sea Water on the Growth of Unialgal Marine Phytoplankton Cultures,
W76-08440 9-16 5C

Hydrocarbon Concentrations in Seawater along the Halifax-Bermuda Section: Lessons Learned Regarding Sampling and some Results,
W76-10388 9-19 5A

KEJ, A.
River and Estuary Modeling with the Siva System,
W76-09982 9-18 2A

Systems Modeling of Stratified Fluids,
W76-09976 9-18 8B

KELIHER, P. N.
Some Observations Regarding Pentachlorophenol Levels in Haverford Township, Pennsylvania,
W76-12591 9-23 5B

KELKAR, P. S.
Shallow Depth Sedimentation-A Rational A
proach to Water and Wastewater Clarificatio
W76-00263 9-01

KELKAR, R. R.
Measurement of Soil Moisture in Poona Bla
Cotton Soil Using an Infra-Red Moistu
Balance,
W76-08734 9-16

KELL, V.
Investigations on the Phytoplankton and So
Environmental Parameters of the Shattal-Ar
(Iraq), (In German)
W76-09084 9-17

KELLAND, D.
High-Gradient Magnetic Separation,
W76-04787 9-10

KELLER, A.
The 'Rheodrom', A New Flowing Wa
Research Apparatus, (In German),
W76-07945 9-15

KELLER, C. W.
Trends in Water Rates,
W76-01612 9-04

KELLER, E. C. JR.
Phytoplankton Generic Diversity and Bioma
Estimates of a Monogahela River Acid Co
fluence,
W76-12748 9-24

KELLER, G. H.
Possible Bottom Current Response to Surfa
Winds in the Hudson Shelf Channel,
W76-02706 9-06

KELLER, J.
Energy Inputs to Irrigation,
W76-04566 9-10

Trickle Irrigation Design Parameters,
W76-01087 9-03

KELLER, J. W.
Ozone Disinfection Pilot Plant Studies
Laconia, New Hampshire,
W76-03688 9-08

KELLER, L. F.
Kansas Groundwater Policy Seminar,
W76-06154 9-13

KELLER, M.
Status Report on Lake Trout Surveillance
Michigan's Waters of Lake Michigan, 1969-71
W76-04541 9-10

KELLER, R.
Chlorohydrocarbons in Lake Superior La
Trout (Salvelinus Namaycush),
W76-04913 9-10

KELLER, R. J.
Prediction of Flow Development on Spillways
W76-01255 9-03

KELLERHALS, R.
Classification and Analysis of River Processes
W76-12973 9-24

KELLEY, D.
Eutrophication of a Partially Enclos
Estuarine Mudflat,
W76-11811 9-22

KELLEY, D. C.
Nitrates in Kansas Groundwaters as Related
Animal and Human Health,
W76-06754 9-13

ELLEY, J. C.
Results of Sea Surface Mapping in the Peru Upwelling System,
W76-02698 9-06 5A

ELLEY, J. R. JR.
An Improved Cage Design for use in Culturing Channel Catfish,
W76-04424 9-09 8I

ELLNER, W. B.
A Proposed Methodology for Assessing Alternative Technologies,
W76-13049 9-24 6G

ELLOGG, R. L.
Dieldrin Contamination of Channel Catfish, Invertebrates and Minnows from the Des Moines River,
W76-05457 9-11 5C

ELLY, D. B.
The Black Hills-Rapid City Flood of June 9-10, 1972: A Description of the Storm and Flood,
W76-02967 9-06 2E

ELLY, G. J.
Guidelines for the Selection of Turbine Pump Materials for use in Groundwaters,
W76-05406 9-11 8G

ELLY, M. G.
Atmospheric Reaeration in a River Using Productivity Analysis,
W76-03115 9-07 5G

Evaluating a Mathematical Model for Predicting Lake Eutrophication,
W76-02370 9-05 5C

A Method for Monitoring Eutrophication in Rivers,
W76-06803 9-14 5A

ELLY, R. F.
Mineral Resource Management of the Outer Continental Shelf.
W76-09306 9-17 6G

ELLY, T. E.
The Effects of Ground-Water Development on the Water Supply in the Post Headquarters Area, White Sands Missile Range, New Mexico,
W76-09137 9-17 5B

Evaluation of Monitoring of Radioactive Solid-Waste Burial Sites at Los Alamos, New Mexico,
W76-02488 9-05 5B

ELLY, T. M.
Historical Changes in Mercury Contamination in Michigan Walleyes (Stizostedion Vitreum Vitreum),
W76-03652 9-08 5B

ELLY, W. E.
An Analog Model of the Chipuxet Aquifer, Rhode Island,
W76-10814 9-20 2F

Geoelectric Sounding for Delineating Ground-Water Contamination,
W76-04687 9-10 5B

ELSO, G. L.
Production, Distribution, Use and Environmental Impact Potential of Selected Pesticides,
W76-02316 9-05 5C

ELSO, J. R.
Summer Distribution of the Nearshore Fish Community Near A Thermal Generating Station as Determined by Acoustic Census,
W76-02321 9-05 5B

EMENY, L. G.
The Control and Operation of Nuclear Desalination Systems,
W76-06426 9-13 3A

EMMERER, A. J.
A Review of Initial Investigations to Utilize Erts-1 Data in Determining the Availability and Distribution of Living Marine Resources,
W76-02041 9-05 7B

EMP, A. L. W.
Cultural Impact on the Geochemistry of Sediments in Lake Erie,
W76-08727 9-16 2J

Surficial Sediments of Lake Erie,
W76-08725 9-16 2J

EMP, K.
Chemical Analysis of Trace Elements in Iceland Geysirs with Remarks on Mastigocladus Laminosus Cohn,
W76-01912 9-04 5A

EMP, R. G.
Guidelines for the Selection of Turbine Pump Materials for use in Groundwaters,
W76-05406 9-11 8G

EMPER, W. D.
Crust Strength and Cracking: Part I. Strength,
W76-00522 9-02 2G

Irrigation Method as a Determinant of Large Pore Persistence and Crust Strength of Cultivated Soils,
W76-00699 9-02 2G

Management of Crusting Soils: Some Practical Possibilities,
W76-00518 9-02 2G

Reclamation of Soils Contaminated with Radioactive Strontium,
W76-05906 9-12 5G

ENDA, W.
A Systems Approach to Effluent Abatement by Hawaii's Sugar Cane Industry,
W76-04746 9-10 3E

ENDALL, M. W.
Acute Effects of Methyl Mercury Toxicity in Channel Catfish (Ictalurus Punctatus) Kidney,
W76-03044 9-07 5C

ENIS, P. R.
Comparison of Toxicity Tests,
W76-10367 9-19 5C

ENNEDY, D. C.
Decolorize Kraft Bleach Plant Effluents Effectively with Low-Cost Polymeric Adsorption Method,
W76-05288 9-11 5D

ENNEDY, E. A.
Pelagic Tar in the Gulf of Mexico and Caribbean Sea,
W76-10409 9-19 5B

ENNEDY, J. F.
Effects of Large Thermal Discharges on Ice-Covered Rivers,
W76-03139 9-07 5C

Entrainment and Drag Forces of Deflected Jets,
W76-12969 9-24 8B

A Laboratory Investigation of the Mechanics and Hydraulics of River Ice Jams,
W76-10714 9-20 2C

Plume Recirculation and Interference in Mechanical-Draft Cooling Towers,
W76-04806 9-10 5B

Thermal-Hydraulic Model Study of Offshore Discharge System for Kahe Power Plant, Hawaii,
W76-08508 9-16 5B

ENNEDY, J. T.
Land Disposal of Livestock Waste,
W76-00440 9-01 5E

ENNEDY, K. G.
Movement of Chemical Contaminants in Ground Water,
W76-00410 9-01 5B

Movement of Chemical Contaminants in Ground Water,
W76-08905 9-17 5B

ENNEDY, M.
Biology of the Rudd Scardinius Erythrophthalmus (L) in Irish Waters,
W76-07419 9-14 2H

ENNEDY, R. H.
A Comparison of Phosphorus and Water Contributions by Snowfall and Rain in Northeast Ohio,
W76-11858 9-22 5B

ENNEDY, V. C.
Solute Transport and Modeling of Water Quality in a Small Stream,
W76-08058 9-15 5B

ENYERES, J.
Laboratory Model Study of the Effects on the Aquatic Microflora of Coal-Washing Plant-Generated Waste Waters (Szenmoso-Uzemi Szennyvizek Elovizekre Gyakorolt Hatasnak Laboratoriumi Modellvizsgalata),
W76-07641 9-15 5B

ENYON, V.
Planning for Water Recreation in Israel,
W76-12959 9-24 6B

EPCZYNSKI, K.
Plant Associations of Lake Mieliwo and the Adjacent Peat Bogs in the Brodnica District, (In Polish),
W76-09099 9-17 2H

EPLINGER, M. L.
Toxicity of Polydimethylsiloxanes in Certain Environmental Systems,
W76-10348 9-19 5C

EPPLE, L. G.
Removal and Recovery of Ammonia from Anaerobic Digester Supernatant,
W76-11260 9-21 5D

EPPLER, H-G.
Purification of Waste Water from Styrene Bead Polymer Production,
W76-04083 9-09 5D

EPPLER, P.
Mining and the Federal Water Pollution Control Act Amendments of 1972,
W76-05193 9-11 5G

KER, W. A.
Water and the British Columbia Mining Industry,
W76-06954 9-14 5G

KERBS, L.
Water-Level Records for Colorado, 1971-75,
W76-04394 9-09 7C

KERCHER, J. R.
Bioaccumulation Factors for Radionuclides in Freshwater Biota,
W76-04846 9-10 5C

KERESE, J.
Evolution of Operation Control in Water Treatment (A Viztisztitasi Technologiak Uzemiranyitasanak Fejlodese),
W76-01450 9-03 5D

KERESELIDZE, Z. M.
Formation Aspects of Zooplankton Species Composition in Two Different-Type Reservoirs in Eastern Georgian SSR, (In Russian),
W76-07413 9-14 5C

KERFOOT, W. B.
Permissible Levels of Heavy Metals in Secondary Effluent for Use in a Combined Sewage Treatment-Marine Aquaculture System. I. Monitoring During Pilot Operation,
W76-03547 9-08 5C

Permissible Levels of Heavy Metals in Secondary Effluent for Use in a Combined Sewage Treatment-Marine Aquaculture System. I. Monitoring During Pilot Operation,
W76-10993 9-20 5D

Permissible Levels of Heavy Metals in Secondary Effluent for Use in a Combined Sewage Treatment-Marine Aquaculture System. II. Development of Guidelines by Method of Additions,
W76-03548 9-08 5C

Permissible Levels of Heavy Metals in Secondary Effluent for use in a Combined Sewage Treatment-Marine Aquaculture System. II. Development of Guidelines by Methods, of Additions,
W76-10994 9-20 5D

KERHIN, R. T.
Linear Distribution of the High Marsh Vegetation Communities of the Lower Eastern Shore and its Geological Significance,
W76-09570 9-18 2L

Maryland Chesapeake Bay Beaches - General Distribution and Classification,
W76-09568 9-18 2L

Visual Observation of the Suspended Sediments and Nearshore Ice Signatures in Chesapeake Bay,
W76-09571 9-18 2L

KERMARREC, F.
Device for Recovering Polluting Products Spread Over the Water Surface, In Particular Oil Products,
W76-02265 9-05 5G

KERN, A. A.
Intensification of the Biochemical Purification of Phenolic Waste Waters in Aeration Tanks (Intensifikatsiya biokhimicheskoy ochistki fenolsoderzhashchikh stochnykh vod v aerotenkakh),
W76-05491 9-11 5D

KERN, D. W.
Problems in Performing Environmental Assessments,
W76-07217 9-14 6G

KERN, S. I.
No Dumping in This Ocean: Nearing the End of Ship-Generated Pollution,
W76-00930 9-02 5B

KERNODLE, D. R.
Epifauna at Jackson Point in Port Valdez, Alaska, December 1970 through September 1972,
W76-13070 9-24 5A

KERNS, B. A.
Managing Industrial Waste Disposal,
W76-05310 9-11 5D

KERNS, C.
The Hawaiian Archipelago Defining the Boundaries of the State,
W76-07818 9-15 6E

KERR, A. D.
The Bearing Capacity of Floating Ice Plates Subjected to Static or Quasi-Static Loads, A Critical Survey,
W76-06192 9-13 8G

KERR, E. D.
Pollution of Surface Irrigation Waters by Plant Pathogenic Organisms,
W76-08230 9-16 5B

KERR, F.
Current Livestock Pollution Regulations,
W76-01385 9-03 5G

KERR, R. M.
Dewatering of Distillery Spent Wash in the Production of By-Product Dreg Meal,
W76-02784 9-06 5D

KERRI, K. D.
Management of an Effective Maintenance Program,
W76-06333 9-13 5G

KERRIGAN, J. E.
Phosphorus in Our Environment,
W76-01019 9-03 5B

KERSHAW, K. A.
Dependence of the Level of Nitrogenase Activity on the Water Content of the Thallus in Peltigera Canina, P. Evansiana, P. Polydactyla, and P. Praetextata,
W76-09916 9-18 5A

KERSHAW, M. A.
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W76-09454 9-18 5D

KERSHNER, C. J.
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W76-12782 9-24 5G

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W76-12780 9-24 5D

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W76-12781 9-24 5G

KESLER, C. E.
Concrete for Tunnel Liners: Behavior of Steel Fiber Reinforced Concrete Under Combined Loads,
W76-02545 9-06 8I

KESSELRING, D. F.
Pollution Abatement Systems for Farm Animal Wastes in Southeast Michigan,
W76-11057 9-20 5I

KESSENICH, T. A.
Surface Wave Data Recorded in Lake Ontario During IFYGL,
W76-03184 9-07 7C

KESSICK, M. A.
Ozone Degradation in Packed Columns,
W76-01743 9-04 5I

KESSLER, J. O.
Application of Direct Osmosis: Possibilities for Reclaiming Wellton-Mohawk Drainage Water,
W76-02746 9-06 5I

Applications of Direct Osmosis: Design Characteristics for Hydration and Dehydration,
W76-02745 9-06 5I

KESTERSON, J. W.
Effects of Nitrogen, Potassium and Irrigation on Yield and Quality of Lemon,
W76-06314 9-13 3F

KESTING, R. E.
Preparation of Reverse Osmosis Membranes by Complete Evaporation of the Solvent System,
W76-09876 9-18 3A

KESTNER, F. M.
Disposal of Effluent from a Beef Cattle Feedlot Runoff Control Holding Pond,
W76-04290 9-09 5E

KETCHEN, E. E.
Method for Removing and Decolorizing Aqueous Waste Effluents Containing Dissolved or Dispersed Organic Matter,
W76-02264 9-05 5D

KETCHUM, B. H.
Oil in the Marine Environment,
W76-11025 9-20 5B

KETCHUM JR, R. D.
Comparison of Sea-Ice Type Identification Between Airborne Dual-Frequency Passive Microwave Radiometry and Standard Laser/Infrared Technique,
W76-05388 9-11 7B

KETRATENABORVORN, T.
Measurement and Analysis of Very Short Duration Rainfall,
W76-00002 9-01 2B

KETSCHKE, B. A.
A Study of the Marine Resources of Hingham Bay,
W76-08039 9-15 5C

KETTANEH, M. S.
Comparative Evaluation of Yearly Climatic Factors with the Five Years Averages for Fudhaliya Agro-Meteorological Station,
W76-09066 9-17 2B

KEUNING, D. H.
Application of Finite Element Method to Open Channel Flow,
W76-10939 9-20 8B

VERN, N. R.
istribution of Mercury, Cadmium, Lead and hallium in a Eutrophic Lake,
/76-02898 9-06 5B

he Nutrient Composition, Dynamics, and cological Significance of Drift Material in the ed Cedar River,
/76-12946 9-24 5C

Jutrients and Primary Production in a Warm Vater Stream,
/76-07104 9-14 5C

YES, T. W.
Application of Kinetic Models to the Control of Activated Sludge Processes,
/76-03794 9-08 5D

YS, W. S.
Stress Determination by Hydraulic Fracturing n Subsurface Waste Injection,
/76-00089 9-01 5E

IADER, M. H. A.
Transient Well-Flow in an Unconfined-Confined Aquifer System,
/76-00029 9-01 4B

Unsteady Flow to a Nonpenetrating Artesian Well,
W76-12445 9-23 2F

IALANSKI, M.
Studies Carried out in France on the Ecological Consequences of Open-Circuit Cooling in Thermal Power Stations, (Etudes Realisees en France sur Les Consequences Ecologiques de la Refrigeration des Centrales Thermiques en Circuit Ouvert),
W76-08875 9-17 5C

IALID, R. A.
Effect of Water Quality and Management Practices on Some Chemical Properties of Soils,
W76-09926 9-18 3C

IALIL, M.
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W76-07993 9-15 5B

IALLYEV, KH.
Wind-Solar Power Installations for Water Raising and Distillation, (In Russian),
W76-11524 9-21 3A

IAMDAMOV, K. K.
Effectiveness of Inorganic Fertilizers in Restoring Fertility of Irrigation-Eroded Soils, (In Russian),
W76-12785 9-24 3F

IAN, R. A.
Ground-Water Quality in the Shiraz Basin, South Iran,
W76-00012 9-01 2K

IANDEKAR, M. L.
Simulation of Movement of Oil Slicks in the Strait of Georgia using Simple Atmosphere and Ocean Dynamics,
W76-09316 9-17 5C

IANDOVLETOV, S.
Determining the Power Level and Range of Solar Water-Raising Installations in the Turkmen SSR, (In Russian),
W76-03664 9-08 3F

KHANJI, J.
Equation of Infiltration with Compression and Counterflow Effects,
W76-11956 9-22 2G

Prediction of Imbibition in a Horizontal Column,
W76-02935 9-06 2G

KHANNA, P.
Optimal Design of Wastewater Collection Systems,
W76-13165 9-24 5D

KHARCHENKO, A. D.
Hygienic Evaluation of Chlorinating Water by Products of the Electrolysis of Sodium Chloride Solutions, (In Russian),
W76-03813 9-08 5F

KHASAWNEH, F. E.
Yield-Nutrient Absorption Relationships as Affected by Environmental Growth Factors,
W76-10184 9-19 2I

KHATTAT, F. H.
Acute Toxicity of Certain Pesticides to Acartia Tonsa Dana,
W76-11193 9-21 5C

KHAVITCH, V. A.
Mathematical Simulation and Optimization of Flood Control Systems,
W76-12554 9-23 4A

KHELLENOV, O. B.
Mechanization of Water-Raising from the Water-Accumulating Wells 'Chirle', (In Russian),
W76-03663 9-08 4B

KHELMANIS, V. P.
Flood Routing in Channel Systems with Allowance for Bank Regulation,
W76-05668 9-12 4A

KHEPAR, S. D.
A Simplified Approach for the Analysis of Unsteady Flow to a Cavity Well,
W76-07561 9-15 2F

KHISAMUTDINOVA, V. I.
Effect of Hardening on the State of Water in Seedlings of Winter Cultures, (In Russian),
W76-09095 9-17 2I

KHIZHNYAK, N. I.
Sanitary-Helminthologic Assessment of Irrigation with Sewage by Means of Sprinkling, (In Russian),
W76-06983 9-14 5E

KHLEBNIDOV, N. D.
Removal of Oils from Waste Waters (Ochistka stochnykh vod ot masel),
W76-00124 9-01 5D

KHLOPKOVA, L. I.
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W76-07532 9-15 5D

KHOANG, T.
Phytomass Dynamics of Aboveground and Underground Organs of Meadow Steppe Plants, (In Russian),
W76-09817 9-18 2I

KHOPKAR, S. M.
The Extraction of Osmium with Tributyl Phosphate and Photometric Determination with Thiourea,
W76-03408 9-07 5A

KHOSLA, V. K.
Engineering Properties of Compacted Clay Conditioned by Saturation and Freeze-Thaw Cycles,
W76-12453 9-23 2C

KHRAMOVA, S. I.
Detoxication in Plants of Toxic Substances from Industrial Sewage Used for Irrigation, (In Russian),
W76-11567 9-21 5C

KHRISTIANOVA, L. A.
Determination of Fluorine in Drinking Water with a Cerium(III)- or Lanthanum Alizarin Complex, (In Russian),
W76-09796 9-18 5A

KHRUSLOVA, T. N.
The Use of Alcohol Distillery-Generated Waste Waters for Irrigation (Ispol' zovaniye stokov spirtozavodov dlya orosheniya),
W76-03083 9-07 5D

KHRUSTALEV, YU. P.
Seasonal Dynamics of Suspended Matter in the Azov Sea, (In Russian),
W76-10126 9-19 2J

KIANG, Y-H.
Liquid Waste Disposal System,
W76-05481 9-11 5D

KIBBEL, W. H. JR.
Hydrogen Peroxide for Wastewater Treatment,
W76-06982 9-14 5D

KIBBEY, A. H.
Correlation of Radioactive Waste Treatment Costs and the Environmental Impact of Waste Effluents in the Nuclear Fuel Cycle for Use in Establishing as Low as Practicable Guides-Fabrication of Light-Water Reactor Fuels Containing Plutonium,
W76-12694 9-24 5C

KIBLER, D. F.
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W76-08411 9-16 5B

Use of Mathematical Models in the Palo Alto Marshland Rehabilitation Project,
W76-09949 9-18 8B

KIBLER, J. F.
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W76-10021 9-19 5B

KIDD, C. H. R.
QUURM--A Realistic Urban Runoff Model,
W76-04693 9-10 2A

QUURM - A Realistic Urban Runoff Model,
W76-05577 9-12 2A

KIDON, W. E.
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W76-05494 9-11 5D

Interaction of Activated Carbon with Dissolved Oxygen,
W76-07015 9-14 5D

KIDWELL, C. C.
Hydrologic Data for North Creek Trinity River Basin, Texas, 1974,
W76-10147 9-19 7C

KIECHEL, W. JR.
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W76-04629 9-10 6E

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W76-01957 9-04 6E

KIEFER, D. A.
A Thermodynamic Model for Steady State Metabolism of Phytoplankton, Part I. Theory,
W76-08944 9-17 5C

A Thermodynamic Model for Steady State Metabolism of Phytoplankton, Part II. Light and Carbon Limited Growth,
W76-08945 9-17 5C

Two Blooms of Gymnodinium Splendens (Lebour). A Large Naked Dinoflagellate,
W76-08937 9-17 5C

KIEFER, W.
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W76-00367 9-01 5D

KIEMENEIJ, A. M.
Rapid Photochemical Decomposition of Organic Mercury Compounds in Natural Water,
W76-05715 9-12 5A

KIENOW, K.
Protecting Reinforced Concrete Pipe Sanitary Sewers,
W76-05099 9-11 8F

KIFF, R. J.
Aeration Plant Design: Derivation of Basic Data and Comparative Performance Studies,
W76-00265 9-01 5D

KIGEL, T. V.
Harmlessness of Grain Grown on Sewage Farms, (In Russian),
W76-12645 9-23 5C

KIHLSTROM, J. E.
Pikes (Esox Lucius L.) Shown to be Affected by Low pH Values During First Weeks After Hatching,
W76-10343 9-19 5C

KIKUI, K.
Device for Damping Waves,
W76-11825 9-22 8B

KIKUYA, A.
Method of Estimating Maximum Water-Holding Capacity in Shallow Soil in a Watershed by Portable Seismic Prospecting Equipment,
W76-03063 9-07 2G

KILAMBI, R. V.
Effects of Quality and Quantity of Food on Golden Shiner, Notemigonus Crysoleucas, Production,
W76-01900 9-04 2I

KILBERTUS, G.
Microbiological and Algological Survey of A Primary Stage of Eutrophication in a Stream, (In French),
W76-09399 9-17 5C

KILDOW, J. T.
Report of the Ocean Policy Research Workshop,
W76-07367 9-14 6E

Social, Political, Regulatory and Marketing Problems of Marine Waste-Food Recycling Systems,
W76-03563 9-08 6B

Social, Political, Regulatory and Marketing Problems of Marine Waste-Food Recycling Systems,
W76-10991 9-20 5G

KILHAM, P.
Photosynthetic Rates of Phytoplankton in East African Alkaline, Saline Lakes,
W76-06742 9-13 5C

KILKUS, S. P.
Nutrients and Algae in Some Central Iowa Streams,
W76-01152 9-03 5C

KILL, D. L.
Cost Comparisons and Practical Applications of Air-Lift Pumping,
W76-00396 9-01 8C

KILLIN, A. M.
Engineering and Cost Study of the Ferroalloy Industry,
W76-04547 9-10 5G

KILPATRICK, J. E.
The Role of North Carolina in Regulating Offshore Petroleum Development,
W76-07822 9-15 6E

KILROE-SMITH, T. A.
Effect of Sample Preparation on Blood Lead Values,
W76-09130 9-17 5A

KILVINGTON, C. C.
Petroleum Compounds in the Marine Food Web: Short-Term Experiments on the Fate of Naphthalene in Calanus,
W76-11181 9-21 5C

KIM, A. S.
The Effectiveness of Presowing Flooding of the Rice Fields in KZYL-ORDIA Oblast, (In Russian),
W76-02280 9-05 3F

KIM, B. R.
Influence of Activated Sludge CRT on Adsorption.
W76-12636 9-23 5D

KIM, C. Y.
Concentrations of Mercury, Cadmium, Lead and Copper in the Surrounding Seawater and in Seaweeds, Undaria Pinnatifida and Sargassum Fulvellum, from Suyeong Bay in Pusan, (In Korean),
W76-13190 9-24 5A

KIM, D. H.
A Scheme for Stochastic State Variable Water Resources Systems Optimization,
W76-01685 9-04 2E

KIM-E, M. B.
Reclamation of Hyperion Secondary Effluent by Reverse Osmosis,
W76-03961 9-08 5D

KIM, H. H.
Development of an Airborne Laser Bathym
ter,
W76-11755 9-22 7

Mapping and Identification of Oil on Water
the Use of an Airborne Laser System,
W76-10384 9-19 5

KIM, I. B.
An Observation of Water Quality and R
Water in Still Water Fish Ponds, (In Korean),
W76-09799 9-18 5

KIM, J. R.
Forecasting Urban Water Use: Commerci
Establishments,
W76-01609 9-04 6

KIM, J-W.
Diagnostic Model Study of Mixed-Lay
Depths in the Summer North Pacific,
W76-09719 9-18 2

KIMBALL, J. D.
Pollution--Right of Shipowner to Contributi
from United States Where Negligence of Coa
Guard was a Cause of Casualty and Ensui
Spill. Burgess V. The Tamano, 373 F Supp 8
(D ME 1974),
W76-06493 9-13 5

Pollution -- Shipowners' Liability not Limit
by Limitation of Liability Act. The Ocea
Eagle, 1974 AMC 1629 (DPR 1974) (DICTUM
W76-05184 9-11 5

KIMBALL, N. D.
Economic Evaluation of Liquid Manu
Disposal Systems for Dairy Cattle,
W76-12357 9-23 5

KIMBALL, P. B.
Cognitive Strawman: Public Input to a Wat
Resource Planning System,
W76-06548 9-13 6

KIMBALL, S. L.
Plant Development Under Snow,
W76-06147 9-12 2

KIMBLE, L. A.
Relationships Between Selected Physic
Parameters and Benthic Community Structu
in a Small Mountain Stream,
W76-01803 9-04 2

KIMBLE, O. K.
Fresh Water Can be Stored in Saline Aquifers
W76-10107 9-19 4

KIMBLER, O. K.
Cyclic Storage of Fresh Water in Salin
Aquifers,
W76-01811 9-04 4

KIMMEL, G. E.
Analog-Model Analysis of Hydrologic Effect
of Sewerage in Southeast Nassau an
Southwest Suffolk Counties, Long Island, Ne
York,
W76-02146 9-05 5

KIMSEY, R. A.
Water Allocation in Utah--Protection of In
stream Uses,
W76-11974 9-22 4

KIMURA, R.
Approach to Entirely Closed Board Mill by Ac
tivated Carbon Adsorption (Itagami kojo n
okeru kasseitan ni yoru haisui shori ni tsuite),
W76-06979 9-14 5

MURA, Y.
A Study of Renovation of Pulp Waste Water--Treatment of Unbleached Kraft Pulp Washing Waste Water with Lime, (In Japanese),
W76-04227 9-09 5D

Treatment of Kraft Pulp Wastewater With Lime (III): Treatment of the Integrated Bleaching Alkaline Water With Lime (Kurafuto parupu haisui no sekkaishor (III): Sarashi arukari sogo haisui no sekkai shori),
W76-02654 9-06 5D

NCANNON, D. F.
Application of Activated Sludge Design and Operation,
W76-10221 9-19 5D

The Effects of Regional Development on the Illinois River Environment,
W76-01690 9-04 5B

Evaluating Rotating Biological Contactor Performance,
W76-09173 9-17 5D

One-Step Nitrification and Carbon Removal,
W76-00352 9-01 5D

One- Versus Two-State Nitrification in the Activated Sludge Process,
W76-11203 9-21 5D

INDERMANN, J. J.
Aerated Lagoons Provide Effective Tertiary Treatment,
W76-01287 9-03 5D

INDLER, J.
A Case Study Report on the Vistula River Basin,
W76-05514 9-12 4A

The Out-Of-Kilter Algorithm and Some of its Applications in Water Resources,
W76-05515 9-12 6A

INERSON, R. S.
Cold Period Plant-Water Relations Affecting Consumptive Use of Soil Water and Waste Water Reuse,
W76-04802 9-10 2D

ING, A. B.
Development of Regional Supply Functions and a Least-Cost Model for Allocating Water Resources in Utah: A Parametric Linear Programming Approach,
W76-02876 9-06 6A

ING, C. J.
Determination of Surface Equilibria and Mass Transfer Rates in a Concurrent Flow Bubble Column,
W76-10632 9-20 5D

ING, D. A.
Sewage Treatment Plant,
W76-03013 9-07 5D

ING, D. B.
Modeling of Inlet-Bay Systems in Relation to Sand Trapping,
W76-10462 9-19 2L

ING, D. L.
Acid Strip Mine Lake Recovery,
W76-07499 9-15 5G

ING, H. D. JR.
Hydrologic Data for Urban Studies in the Houston, Texas Metropolitan Area, 1973,
W76-02961 9-06 7C

KING, J. C.
Evaluation of a 35-GPH Portable Desalination Plant and Conceptual Design of a 220-GPH Containerized Plant,
W76-00245 9-01 3A

KING, J. N.
Removal of Copper and Iron Prior to Water Hardness Titration,
W76-05716 9-12 5A

KING, J. P.
Sprinkler with Sealed Magnetic Rotary Motion Transmitting Mechanism,
W76-02601 9-06 3F

KING, L. R.
A Study of the Effects of Stream Channelization and Bank Stabilization on Warmwater Sport Fish in Iowa: Subproject No. 3 Some Effects of Short-Reach Channelization on Fish and Fish Food Organisms, in Central Iowa Warm Water Stream,
W76-12232 9-23 4C

Warm Water Stream Alteration in Iowa: Extent, Effects on Habitat, Fish, and Fish Food, and Evaluation of Stream Improvement Structures (Summary Report),
W76-12235 9-23 4C

KING, P. H.
Heavy Metal Release by Chlorine Oxidation of Sludges,
W76-03789 9-08 5D

High-Rate Water Treatment: The State-of-the-Art,
W76-00226 9-01 5F

Process Control by Oxygen-Uptake and Solids Analysis,
W76-03670 9-08 5D

Temperature Effects on Aerobic Digestion Kinetics,
W76-03668 9-08 5D

KING, R. F.
Field Observation of the Dynamics of Heated Discharge Jets,
W76-12775 9-24 5B

Field Observations of the Dynamics of Heated Discharge Jets,
W76-11307 9-21 5B

KING, R. P.
The Operation of a Simplex Activated Sludge Pilot Plant in an Atmosphere of Pure Oxygen,
W76-09669 9-18 5D

The Operation of a Simplex Activated Sludge Pilot Plant in an Atmosphere of Pure Oxygen, Part 2,
W76-12665 9-23 5D

KING, T. G.
Simulation of Deep Seepage to a Water Table,
W76-09245 9-17 2F

KING, T. W. JR.
NEPA and a State's Role in Water Resources Management,
W76-09627 9-18 6E

KING, W. D.
Thermal Shock as an Ice Multiplication Mechanism. Part I. Theory,
W76-07547 9-15 2B

Thermal Shock as an Ice Multiplication Mechanism. Part II. Experimental,
W76-07548 9-15 2B

KINGSBURY, B. T.
Characterization of Slush Ice in the Great Lakes,
W76-01487 9-03 2C

KINKADE, M. L.
The Influence of Hardness Components (CA2+ and MG2+) in Water on the Uptake and Concentration of Cadmium in a Simulated Freshwater Ecosystem,
W76-10346 9-19 5C

KINKEAD, J. D.
A Limnological Survey of Nearshore Waters of Lake Superior,
W76-11321 9-21 2H

KINMAN, R. N.
Treatment of Tannery Wastewater from Bona Allen, Inc., Buford, Georgia,
W76-08177 9-16 5D

KINNEAR, B. S.
Distribution of Tar Balls and Neuston Sampling in the Gulf Stream System,
W76-10410 9-19 5B

KINNELL, P. I. A.
Some Observations on the Joss-Waldvogel Rainfall Disdrometer,
W76-10928 9-20 2B

KINNER, P.
Evaluation of Sludge Dumping Off Delaware Bay,
W76-11792 9-22 5B

KINNEY, P. J.
Energy Development: The Environmental Tradeoffs. Volume 3: Relative Environmental Ranking of Proposed Offshore Continental Shelf Areas on the Basis of Impacts of Oil Spills,
W76-13039 9-24 6G

KINNEY, R. J.
Vibrio Parahaemolyticus in Seawater Off the Pacific Coast of Panama,
W76-06252 9-13 2L

KINNISON, R. R.
In Situ Soil Gamma Analyzer--A New Approach to Determine the Movement of Pollutants in Soils.
W76-00912 9-02 5A

KINUGASA, Y.
Dehydration of Urban Sewage Sludge by Freezing (Toshi gensui odei no toketsu dassui shori),
W76-00765 9-02 5D

Waste Water Disposal of Painting Factory and Closed-Systematization (Toso kojo no haisui shori to kurozudo-shisutemu ka),
W76-00133 9-01 5D

KIRBY, C. J.
The Role of Physical Modeling in Marsh-Estuarine Mineral-Cycling Research,
W76-10276 9-19 5B

KIRBY-SMITH, W.
The Oceans as Ultimate Sinks for Wastewaters and Wastewater Residuals,
W76-03846 9-08 5E

KIRCHMANN, R.
Contamination of Freshwater by Mn54 and Co60,
W76-05903 9-12 5C

KIRCHNER, A.
The Effect of Mineral Environment on the Geohydrological Situation in Low Bog Sites, (In German),
W76-08184 9-16 2H

On the Occurrence of Pressure Water in Low Bogs, (In German),
W76-08105 9-16 2H

KIRCHNER, W. B.
The Effect of Oxidized Material on the Vertical Distribution of Freshwater Benthic Fauna,
W76-05743 9-12 5C

An Evaluation of Sediment Trap Methodology,
W76-01313 9-03 2J

(The Effect of Oxidized Material on the Vertical Distribution of Freshwater Benthic Fauna,
W76-03037 9-07 5C

KIRICHENKO, V. V.
Sanitary Inspection of Surface Waters Polluted with Aromatic Amino and Nitro-Compounds, (In Russian),
W76-09798 9-18 5A

KIRK, B. S.
Methods and Apparatus for Treating Wastewater,
W76-05987 9-12 5D

KIRK, K.
Facilities Plans: Clearing Up the Confusion,
W76-01782 9-04 5G

KIRK, W. P.
Retrieval Means for a Floating Liquid Spilling,
W76-13152 9-24 5G

KIRKALDY, I. D.
Sewerage and Sewage Disposal,
W76-07046 9-14 5E

KIRKEGAARD, J.
Problems of Physical Model Tests with Harbours,
W76-10451 9-19 8B

KIRKERUD, L. A.
A Method for the Rapid Sorting of Plankton into a Number of Size Groups,
W76-09397 9-17 7B

KIRKHAM, D.
Screen Theory for Wells and Soil Drainpipes,
W76-00490 9-01 8B

Screen Theory for Wells and Soil Drainpipes,
W76-00734 9-02 8B

KIRKHAM, M. B.
Trace Elements in Corn Grown on Long-Term Sludge Disposal Site,
W76-00359 9-01 5B

KIRKOV, P.
The Application of Semiconductor Compounds as Indicator Electrodes,
W76-03500 9-07 5A

KIRKPATRICK, G. A.
An Assessment of Automatic Sewer Flow Samplers - 1975,
W76-05864 9-12 5D

Sewer Flow Measurement - A State-Of-The-Art Assessment,
W76-05865 9-12 5D

KIRKPATRICK, R. M.
Effects of Treated Municipal Wastewater on Oat Forage and Grain,
W76-10119 9-19 5D

KIRSCHBAUM, N. E.
Farm Animal Waste Management: What our Milk Market Requires,
W76-11050 9-20 5D

KIRSHEN, P. H.
A Flood Management Model for Urbanizing River Basins,
W76-09737 9-18 4C

KIRWAN, A. D. JR.
Calculations of Differential Kinematic Properties from Lagrangian Observations in the Western Caribbean Sea,
W76-01257 9-03 2L

Oceanic Velocity Gradients,
W76-03736 9-08 2L

KIRY, P.
A Discussion of the Effects of Certain Potential Toxicants on Fish and Shellfish in the Upper Delaware Estuary,
W76-10352 9-19 5C

KIRYUKHINA, L. N.
Marine Soil Pollution and Self-Purification, (In Russian),
W76-09789 9-18 5A

KISELEV, V. A.
The Freedom of Navigation and the Problem of Pollution of the Marine Environment,
W76-12010 9-22 5G

KISHI, T.
Studies on the Adsorptive Effect of Activated Charcoal on Polychlorinated Biphenyls in Water (Yozon PCB no kaseitan kyuchaku shori ni kansuru kenkyu),
W76-03715 9-08 5F

KISHIGAMI, K.
On the Small Scale Waste Water Treatment by Ozone (Shokimo haisui no shori ni tsuite),
W76-04040 9-09 5D

KISIEL, C. C.
Maximum Information Obtainable from Inadequate Design Data: from Multivariate to Bayesian Methods,
W76-09625 9-18 4A

KISSEL, D. E.
Losses of Nitrogen in Surface Runoff in the Blackland Prairie of Texas,
W76-12982 9-24 5G

Nitrate and Chloride Leaching in a Swelling Clay Soil,
W76-00724 9-02 5B

KISSELL, R. G. JR.
Public Law 92-500: Technology Assessment, Technical Volume.
W76-11780 9-22 5G

KISSIL, G. W.
Toxicities of Crude Oils and Oil-Dispersant Mixtures to Juvenile Rabbitfish, Siganus Rivulatus,
W76-02322 9-05 5C

KISYALYEV, V. N.
Pine Associations of the Dernovich Stretch o the Pripyat River Floodplain, (In Belorussian),
W76-01918 9-04 2

KITAIGORDSKII, S. A.
On Phillips' Theory of Equilibrium Range i the Spectra of Wind-Generated Gravity Waves
W76-12336 9-23 2F

KITAMURA, H.
Some Effects of Propionate on the Growth o Rhodopseudomonas Spheroides S,
W76-05462 9-11 5C

Treatment of Wheat Starch Waste By Ac tivated Sludge (2) on the Effect of pH and BOI Loading (Kassei odei ni yoru komugi denpu haisui no shori (2) pH oyobi fukaryo no eikyo),
W76-04294 9-09 5I

KITANOSONO, H.
Interception of Rainfall at Different Growt Stages by the Canopy of Tobacco Plants, (I Japanese).
W76-08986 9-17 3I

KITAO, K.
Effect of the Operational Temperature i Reverse Osmosis Method (Gyaku shinto ho r okeru sosa ondo no eikyo),
W76-05592 9-12 5I

Removal of Ammonia Nitrogen by Catalyti Oxidation Filter Bed (Sesshoku sanka rosho r yoru ammonia-set chisso no jokyo),
W76-05589 9-12 5I

KITAO, T.
Ammonia Nitrogen Removal from Waste Wate Effluents by Zeolite Ion Exchange and Elec trolysis Combination (Zeoraito ni yoru ion kokan-denkai no kumiawase ni yoru haisu karano ammoniasei chisso jokyo),
W76-09023 9-17 5I

KITCHELL, J. F.
Lake Wingra, 1837-1973: A Case History o Human Impact,
W76-05997 9-12 5C

Phosphorous Flux Through Fishes,
W76-09104 9-17 5C

KITCHEN, H. M.
Statistical Estimation of a Demand Functio for Residential Water,
W76-04236 9-09 6I

KITCHEN, J. C.
Particle Size Distributions in a Region o Coastal Upwelling Analyzed by Characteristi Vectors,
W76-02697 9-06 5I

KITCHENS, W. M.
The Santee Swamp as a Nutrient Sink,
W76-10288 9-19 5C

KITCHINGS, J. T.
The Availability of 137-CS to Fishes from In gested Clays,
W76-09118 9-17 5C

KITITSINA, L. A.
Effect of Heated Water Discharge of Therma and Nuclear Power Plants on Invertebrates o Cooling Ponds, (In Russian),
W76-09811 9-18 5C

Production of Pontogammarus Robustoide Grimm. In the Reservoir-Cooler of the Kurak

hovian State Regional Electric Power Station, (In Russian),
W76-13200 9-24 5C

ITSON, T.
Control of a River System with Two Storage Reservoirs,
W76-06422 9-13 4A

JELSON, M. A.
Biomass of Zooplankton in the Newport River Estuary and the Influence of Postlarval Fishes,
W76-06153 9-13 2L

LAASSEN, B.
Hydrograph Recession Constants for New South Wales Streams,
W76-00541 9-02 2E

LAGES, F. W.
Study of the Removal of Phosphate from Waste Water by Lime (Untersuchungen Zur Abwasserentphosphatung Durch Einsatz Von Kalk),
W76-06999 9-14 5D

LANCKO, J.
Industrial Waste Treatment System Reduces Pollution,
W76-08711 9-16 5D

LARBERG, D. P.
Food Habits of Ictalurus Nubulosus in Acid Polluted Water of Northern West Virginia,
W76-02319 9-05 5C

LARER, D. M.
The Effect of Thermal Effluent Upon the Standing Crop of an Epiphytic Algal Community,
W76-00330 9-01 5C

LATT, L. N.
Determination of Nitrate Ion at the Part Per Billion Level in Environmental Samples with a Continuous Flow Immobilized Enzyme Reaction,
W76-11636 9-22 5A

LAUNIG, J.
Acute Toxicity of a Native Mummichog Population (Fundulus Heteroclitus) to Mercury,
W76-05742 9-12 5C

LAUS, W. H.
Turbulent Characteristics of Drag-Reducing Flows,
W76-12826 9-24 8B

LAUSING, R. L.
Ground-Water Basic Data for Dunn County, North Dakota.
W76-12786 9-24 7C

LAUSNER, S. D.
Nitrogen and Phosphorus Losses from Winter Disposal of Dairy Manure,
W76-08159 9-16 5C

Oxygen Relationships in a Soil Treated with Sewage Effluent,
W76-08231 9-16 5D

LEBER, E. V.
Removal of Phosphate from Waste Water,
W76-09458 9-18 5D

LEE, A. J.
Models for Evaluation of Hazardous Wastes,
W76-10190 9-19 5B

KLEEMAN, W. T.
Environmental Quality and Inflation: A Regional Perspective on the Cost-Push Impact of the 1972 Pure Water Legislation,
W76-08151 9-16 5G

KLEEREKOPER, H.
Interaction of Odour and Flow Perception and The Effects of Parathion in the Locomotor Orientation of the Goldfish Carassius Auratus L.,
W76-03030 9-07 5C

KLEFSTAD, G.
Limitations of the Electrical Resistivity Method in Landfill Investigations,
W76-01268 9-03 5B

KLEGERMAN, M. H.
Sludge Disposal Alternatives,
W76-06292 9-13 5E

KLEIBER, P.
A Procedure for Estimating Gross Production, Net Production, and Algal Carbon Content Using 14C,
W76-12944 9-24 5C

KLEIN, A.
Stream Analyzers are for Waste as Well as Product,
W76-05596 9-12 5A

KLEIN, D. A.
Ecological Ramifications of Silver Iodide Nucleating Agent Accumulation in a Semi-Arid Grasslands Environment,
W76-02665 9-06 3B

The Responses of Soils and Soil Microorganisms to Silver Iodide Weather Modification Agents,
W76-08670 9-16 2G

KLEIN, E.
Research and Development of NS-1 and Related Polysulfone Hollow Fibers for Reverse Osmosis Desalination of Seawater,
W76-03257 9-07 3A

KLEIN, H.
Ground-Water Quality in Selected Areas Serviced by Septic Tanks, Dade County, Florida,
W76-06442 9-13 5B

Water and the South Florida Environment,
W76-03402 9-07 5C

KLEIN, J. M.
Appraisal of Water Resources of Northwestern El Paso County, Colorado,
W76-09828 9-18 2E

Water Quality, Fountain and Jimmy Camp Valleys, Colorado, 1973,
W76-03404 9-07 5B

KLEIN, R. A.
An Integrated Power Process Model for Ethylene Production,
W76-04554 9-10 5D

KLEIN, S. A.
An Evaluation of the Accumulation, Translocation, and Degradation of Pesticides at Land Wastewater Disposal Sites,
W76-03871 9-08 5B

KLEIN, W. M.
Environmental Inventory and Assessment of Navigation Pools 24, 25, and 26, Upper Mississippi and Lower Illinois Rivers; A Vegetational Study,
W76-11748 9-22 6G

KLEINER, C. F.
Growth and Survival of Young-of-the-Year Emerald Shiners (Notropis Atherinoides) at Different Temperatures,
W76-08779 9-17 5C

KLEINERT, S. J.
Sources of Polychlorinated Biphenyls in Wisconsin,
W76-10844 9-20 5B

KLEINKOPF, G. E.
Contribution of Salts to the Water Potential of Woody Plants,
W76-09691 9-18 3C

Sodium Relations in Desert Plants: 4. Some Physiological Responses of Atriplex Confertifolia to Different Levels of Sodium Chloride,
W76-02968 9-06 3C

KLEKOWSKI, E. J. JR.
Evidence for the Presence of Mutagenic Pollutants in the Millers River: Results of a Plant Bioassay System,
W76-02869 9-06 5C

KLEMAS, V.
Inventories of Delaware's Coastal Vegetation and Land-Use Utilizing Digital Processing of ERTS-1 Imagery,
W76-02037 9-05 7B

Monitoring Coastal Water Properties and Current Circulation with ERTS-1,
W76-02044 9-05 7B

Monitoring Estuarine Circulation and Ocean Waste Dispersion Using an Integrated Satellite-Aircraft-Drogue Approach,
W76-10671 9-20 5A

KLEMES, V.
Output from a Cascade of Discrete Linear Reservoirs with Stochastic Input,
W76-03742 9-08 2E

Simulation of Gamma-Distributed First-Order Markov Chain,
W76-00743 9-02 2E

KLEMETSON, S. L.
Development of a Dynamic Programming Model for the Regionalization and Staging of Wastewater Treatment Plants,
W76-09845 9-18 5D

Optimization of Water Allocation, Wastewater Treatment, and Reuse Considering Non-Linear Costs, Seasonal Variations, and Stochastic Supplies,
W76-02636 9-06 5D

KLEMMER, H. W.
Mercury Content of Biota in Coastal Waters in Hawaii,
W76-08776 9-17 5C

KLEPER, M. H.
Treatment of Army M U S T Field Hospital Wastewater for Water Reuse,
W76-11270 9-21 5D

KLEPPER, B.
Water Relations of Cotton. I. Root Growth and Water Use as Related to Top Growth and Soil Water Content,
W76-00824 9-02 3F

Water Uptake by Cotton Root Systems: An Examination of Assumptions in the Single Root Model,
W76-00306 9-01 2I

KLEPPER, R.
Fertilizer Application Rates and Nitrate Concentrations in Illinois Surface Waters,
W76-00290 9-01 5B

KLESPER, H.
Apparatus for Continuous Dewatering of Aqueous Suspensions,
W76-08202 9-16 5D

KLETTER, B.
Inactivation of Viruses and Bacteria by Ozone,
W76-00119 9-01 5F

KLIEFORTH, H. E.
Weather Modification in the Lake Tahoe Basin,
W76-07798 9-15 3B

KLIGE, R. K.
Level of Closed Bodies of Water as One of the Criteria of Global Water Exchange,
W76-06179 9-13 2A

KLIMASHAUSKENE, V. P.
Effect of Sulfite Effluents of Cellulose-Paper Mill on Vitality of Daphnia Magna Straus, (In Russian),
W76-11544 9-21 5C

KLIMENKOVA, K. M.
Isolation of Salmonella from Sewage and Surface Waters, (In Russian),
W76-09411 9-18 5A

KLIMKINA, N. V.
Experimental Research Data on Hygienic Evaluation of the Method of Magnetic Treatment of Water, (In Russian),
W76-03536 9-08 5C

KLIMOWICZ, H.
Annual Development of Plankton in a River Water Intake Weir and in a Treatment Pond and its Removal in Treatment Plants,
W76-06211 9-13 5C

KLING, H.
Phytoplankton Successions and Species Distribution in Prairie Ponds of the Erickson-Elphinstone District, Southwestern Manitoba,
W76-01171 9-03 5C

Seasonal Mortality of Rainbow Trout (Salmo Gairdneri) Planted in Smalll Eutrophic Lakes of Central Canada,
W76-11179 9-21 5C

KLINGAMAN, E. D.
Evaluation of Methods for Preserving the Levels of Soluble Inorganic Phosphorus and Nitrogen in Unfiltered Water Samples,
W76-08157 9-16 5A

KLINGENSMITH, R. S.
Tioga River Mine Drainage Abatement Project,
W76-12874 9-24 5G

KLINGER, J.
Low-Temperature Heat Conduction in Pure, Monocrystalline Ice,
W76-07781 9-15 2C

KLINGINER, S. G.
Strengthening Lake-Shoreland Management in Massachusetts,
W76-10264 9-19 6E

KLIPPEL, R. W.
Food Processing Wastewater: Municipal Discharge or Separate Treatment,
W76-04740 9-10 5D

KLISENDO, M. A.
Gas Chromatographic Analysis of Herbicides of the Carboxylic Acid Anilide Group, (In Russian),
W76-07224 9-14 5A

KLISENKO, M. A.
The Chromatographic Method of Determining Inorganic and Organic Mercury Compounds in Fresh Water, (In Russian),
W76-12569 9-23 5A

KLOKOV, V. M.
Productivity of Higher Hydrophytes and Stock of Phytophilic Invertebrates in the Kilia Delta of the Danube, (In Russian),
W76-07277 9-14 2L

KLOOSTER, H. J.
Refinery Design (Circa 1984),
W76-05104 9-11 5D

KLOOSTERBOER, J. G.
Rapid Photochemical Decomposition of Organic Mercury Compounds in Natural Water,
W76-05715 9-12 5A

KLOPATEK, J. M.
The Role of Emergent Macrophytes in Mineral Cycling in a Freshwater Marsh,
W76-10289 9-19 5C

KLOPFENSTEIN, T. J.
Physical and Chemical Properties of Outdoor Beef Cattle Feedlot Runoff,
W76-10543 9-20 5B

KLOSS, H.
Problem of Selecting Indices for the Reliability of Water Supply and Sewer Networks, Part I (Zacadnienie wyboru wskaznikow niezawodnosci systemow wodociagowych i kanalizacyjnych. czesc I),
W76-06313 9-13 5F

KLOSSOWSKI, J.
Needs and Plans in the Development of Urban and Rural Sewer Systems (Potrzeby i Plany Rozbudowy Sieci Kanalizacyjnei w Miastach i Osiedlach),
W76-01294 9-03 8A

KLOSTER, H.
Process for Decontaminating Sewage Containing Cyanide,
W76-10203 9-19 5D

KLUSMAN, R. W.
Impact of Argo Tunnel Acid Mine Drainage, Clear Creek County, Colorado,
W76-06943 9-14 5G

Toxic Heavy Metals in Ground Water of a Portion of the Front Range Mineral Belt,
W76-11105 9-21 5B

Toxic Heavy Metals in Groundwater of a Portion of the Front Range Mineral Belt,
W76-00274 9-01 5A

KLUTE, A.
Hydraulic Properties of a Porous Medium: Measurement and Empirical Representation,
W76-09255 9-17 2G

Soil Water,
W76-01111 9-03 2G

KLUTE, R.
Laboratory Studies Concerning the Influen
of the Type of Energy Dissipation on the A
gregation Process (Laborunter-Suchung
Ueber Den Einfluss Der Art Des Energieei
trages Auf Den Flockungsvorgang),
W76-01759 9-04

Pollutional Effects of Suspended, Sediment
and Eroded Particulate Material in the Aqueo
Environment,
W76-10663 9-20

KLYACHKO, V. A.
Removal of Hydrogen Sulfide from Drinki
and Industrial Water, (In Russian),
W76-11541 9-21

KNAACK, D.
Investigations on the Biological Digestion
Evaporation Condensates Generated in Sulf
Pulp Production (Untersuchungen Ueber
Moeglichkeit der Biochemischen Reinigung
bei der Sulfitzellstoffherstellung Anfallend
Eindampfkondensates),
W76-04192 9-09

KNABACH, M. L.
Manure Ponds for Minimizing Pollution,
W76-07176 9-14

KNAPP, F. D.
Plastic Particles in Surface Waters of
Northwestern Atlantic,
W76-11889 9-22

KNAPP, K. D.
Distribution of Tar Balls and Neuston Sampli
in the Gulf Stream System,
W76-10410 9-19

KNAPP, R. M.
Development and Field Testing of a Ba
Hydrology Simulator,
W76-05745 9-12

KNAPP, W. E.
Possible Effects of Construction and Operati
of a Supertanker Terminal on the Marine E
vironment in the New York Bight,
W76-13089 9-24

KNAPPE, E.
Biological Waste Water Purification in a La
Lacquer and Paint Manufacturing Pl
(Biologische Abwasserreingung in Ein
Grossbetrieb Der Lack- und Farbenindustrie)
W76-03995 9-08

KNAPTON, J. R.
Results of Phytoplankton Sampling at Natio
Stream Quality Accounting Network Statio
in Montana--1975 Water Year,
W76-09146 9-17

KNAUER, D. R.
Aeration as a Lake Management Technique,
W76-07103 9-14

The Effect of Urban Runoff on Phytoplankt
Ecology,
W76-04915 9-10

KNEESE, A. V.
Costs of Water Quality Improvement, Trans
Functions, and Public Policy,
W76-11158 9-21

Water Demands for Energy Development,
W76-04337 9-09

NIGHT, A. L.
Surface Water Availability, Pickens County, Alabama,
W76-12280 9-23 4A

NIGHT, A. W.
Translocation of Hydrocarbons in Aquatic Food Chains,
W76-01921 9-04 5C

NIGHT, D. H.
THE MEDICINE BOW ECOLOGY PROJECT: The Potential Sensitivity of Various Ecosystem Components to Winter Precipitation Management in the Medicine Bow Mountains, Wyoming,
W76-06610 9-13 5C

NIGHT, E.
Municipal Wastewater Plant Problems With Cyanide Effluent Regulations,
W76-03247 9-07 5D

NIGHT, H. G.
Alternative Approaches to Order: Treaty and Non-Treaty Approaches to Order in the World Ocean,
W76-07340 9-14 6E

International Fisheries Management Without Global Agreement: United States Policies and Their Impact on the Soviet Union,
W76-12008 9-22 6E

Legal Aspects of Limited Entry for Commercial Marine Fisheries,
W76-06821 9-14 6E

NIGHT, J. H.
A Note on the Use of the Philip Infiltration Equation,
W76-05411 9-11 2G

NIGHTS, R. D.
The Macro-Invertebrate Fauna of the Intertidal Soft Sediments of South East England,
W76-03764 9-08 5B

NILL, J. L.
Artificially Simulating the Geological History of Clay,
W76-08421 9-16 8D

Ground Water Conditions in Greater Tehran,
W76-00414 9-01 4B

NIPE, O. D.
Revegetating Devastated Sites in New Mexico with Western Wheatgrass Transplants,
W76-12161 9-23 4C

Windbreaks May Increase Water Yield from the Grassland Islands in Arizona's Mixed Conifer Forests,
W76-12477 9-23 3B

NITTEL, M. D.
Taxonomy of Klebsiella pneumoniae Isolated from Pulp/Paper Mill Wastewater,
W76-06645 9-13 5C

NOCH, W.
Device for the Continuous Treatment of Liquid Streams,
W76-05033 9-11 5D

NOCHENMUS, D. D.
Hydrologic Concepts of Artificially Recharging the Floridan Aquifer in Eastern Orange County, Florida--A Feasibility Study,
W76-09150 9-17 4B

KNOECK, J.
Interactions of Metals and Simple Oxyanions in Water,
W76-02633 9-06 5A

KNOECK, J. W.
Solvent Extraction Study for Simultaneous Determinations of Six Trace Metals in River Water,
W76-04759 9-10 5A

KNOPF, G. W.
Two-Stage Biological Treatment of a Difficult Wastewater Mixture,
W76-08034 9-15 5D

KNOPP, P. V.
Waste Water Purification,
W76-08972 9-17 5D

Waste-Water Purification,
W76-11834 9-22 5D

Wastewater Treatment,
W76-05961 9-12 5D

KNORRE, H.
Process for the Precipitation of Heavy Metal Ion-Polycarboxylate Complexes,
W76-11452 9-21 5D

KNOTT, R. A.
Polyelectrolytes in Pressure Filtration: Experiences at Farnham,
W76-03336 9-07 5D

KNOTT, R. K.
Discharge Data at Water-Quality Monitoring Stations in Arkansas,
W76-09145 9-17 7C

KNOWLES, C. E.
Hydrology and Circulation Patterns in the Vicinity of Oregon Inlet and Roanoke Island, North Carolina,
W76-03178 9-07 2E

KNOX, H. T.
Nitrate Movement and its Distribution in the Soil Profile of Differentially Fertilized Corn Watersheds,
W76-06401 9-13 5B

KNUDSON, D. C.
A Laboratory Investigation of the Effect of Surface Films on Wind Induced Reaeration,
W76-03100 9-07 5B

KNUDSON, D. M.
A System for Evaluating Scenic Rivers,
W76-08097 9-15 6B

KNUDSON, K.
Causes and Probably Correctives for Oxygen Depletion Fish Kills in the Dickinson Bayou Estuary: A Field Study and Simplified Algal Assay,
W76-08690 9-16 5C

KNUDSON, W.
Infrared Dry Caustic Vs. Wet Caustic Peeling of White Potatoes,
W76-06652 9-13 5D

KNUTILLA, R. L.
Map Showing Flood of April 1975 at East Lansing, Michigan,
W76-01188 9-03 2E

Map Showing Flood of April 1975 at Meridian Township, Michigan,
W76-01584 9-04 7C

Map Showing Flood of April 1975 at Williamston, Michigan,
W76-01190 9-03 2E

Water Resources of Basins for Minor Streams Draining into St. Clair River, Lake St. Clair, Detroit River, and Lake Erie, Southeastern Michigan,
W76-05427 9-11 7C

Water Resources of the River Raisin Basin, Southeastern Michigan,
W76-07118 9-14 7C

KNUTSON, K. M.
Biological Changes in the South St. Paul Sewage Treatment Plant Before and After Treatment with FeCl3 and Nalcolyte 675 Coagulating Agents,
W76-08290 9-16 5D

KOBAYASHI, H.
Studies on Death of Fish Caused by Red Tide, (In Japanese),
W76-01934 9-04 5C

KOBAYASHI, M.
Treatment of Industrial Waste Solutions and Production of Useful By-Products Using a Photosynthetic Bacterial Method,
W76-02811 9-06 5D

KOBAYASHI, N.
Thiuram Polysulfide Heavy Metal Remover,
W76-10466 9-19 5D

KOBAYASHI, S.
Microdynamics of Detritus Formation and Decomposition and its Role as a Stabilization Influence in Freshwater Lakes,
W76-05459 9-11 5C

Use of High Level Radiation in Waste Treatment--Status and Prospects,
W76-10010 9-19 5D

KOBAYASHI, T.
A Continuous Method of Monitoring Water Quality by Chlorine Consumption Under Ultraviolet Radiation. I. Design and Performance Test of Continuous Chlorine Consumption Meter and Application to Raw Waters of A Water Purification Plant, (In Japanese),
W76-08276 9-16 5A

Decolorization of Night Soil Treatment Plant Effluent by Ozone (Ozon ni yoru shinyo shorisui no dasshoku),
W76-09026 9-17 5D

Effluent Treatment Process (Abwasseraufbereitungsverfahren),
W76-12506 9-23 5D

Treatment of Glass Manufacturing Liquid Waste (Garasu kako haieki no shori),
W76-02979 9-06 5D

KOBORI, K.
Study on the Balance of Heavy Metals in Activated Sludge Treatment Process (Gesui shori shisetsu ni okeru jukinzokurui no shushi ni kansuru kenkyu),
W76-09222 9-17 5A

KOBRIGER, N.
Environmental Status of the Lake Michigan Region, Volume 10. Vegetation of the Lake Michigan Drainage Basin,
W76-02560 9-06 2I

KOBUS, H.
Fluid-Mechanics Aspects in the Design of Sewage Outfalls into the Sea (Stroemungsmechanische Entwurfsaspekte fuer Abwassereinleitungen ins Meer),
W76-10678 9-20 5E

KOCH, C.
The Helical Bend Combined Sewer Overflow Regulator,
W76-07246 9-14 5D

KOCH, D.
Pyramid Lake: Zooplankton Distribution and Blooms of the Blue Green Alga, Nodularia spumigena,
W76-08374 9-16 5C

KOCH, E.
Hydrogeochemical Data from Investigation of Water Quality in Sewered and Unsewered Areas, Southern Nassau County, Long Island, New York,
W76-05858 9-12 7C

KOCH, N. C.
Geology and Water Resources of Brown County, South Dakota--Part II: Water Resources,
W76-12290 9-23 4A

Geology and Water Resources of Marshall County, South Dakota--Part 1: Geology and Water Resources,
W76-08558 9-16 4A

KOCH, R. B.
In Vitro Inhibition of Fish Brain Atpase Activity by Cyclodiene Insecticides and Related Compounds,
W76-00874 9-02 5C

KOCHANOV, M. M.
Forecasting the Danger of Organic Compounds in the Environment, (In Russian),
W76-11734 9-22 5C

KOCHENDERFER, J. N.
Effects of Management Practices on Water Quality and Quantity: Fernow Experimental Forest, W. Virginia,
W76-07021 9-14 4C

KODAMA, O.
On the Pollution of Water of Some Rivers in the Kasumigaura Lake Basin, (In Japanese),
W76-12568 9-23 5B

KODITSCHEK, L. K.
Antimicrobial-Resistant Coliforms in New York Bight,
W76-11590 9-21 5C

KOEHLER, J. H.
Map of the Antelope Valley-East Kern Water Agency Area, California, Showing Ground-Water Subunits and Areas, Location of Wells, and Water-Level Contours for Spring 1975,
W76-03396 9-07 7C

KOELLER, P.
The Replication of Biological Events in Enclosed Water Columns,
W76-08948 9-17 5C

The Replication of Biological Events in Enclosed Water Columns,
W76-09226 9-17 5C

KOELLIKER, J. K.
Management of Irrigation for Disposal of Feedlot Runoff in Cold Climates,
W76-07194 9-14 5D

Performance of Feedlot Runoff Control Facilities in Kansas,
W76-11058 9-20 5D

Waste Application to Soils,
W76-11042 9-20 5D

KOENE, B. K. S.
Chemistry of Dissolved Inorganic Carbon in Estuarine and Coastal Brackish Waters,
W76-09597 9-18 2L

KOENIG, L.
Modeling of Future Expenditures for Planning and Economic Evaluation of Alternatives,
W76-01336 9-03 6A

KOENIG, L. R.
A Numerical Experiment on the Effects of Regional Atmospheric Pollution on Global Climate,
W76-02420 9-05 5A

KOENIGER, W.
Non-Linear Hydrological Models for City Water Drainage (Night-lineare hydrologische modelle in der stadtenwaesserung),
W76-00802 9-02 4A

KOENIGS, F. F. R.
Conditions for Using a Tensionplate as a Lysimeter, (In German),
W76-09082 9-17 2G

KOEPP, S.
Acute Toxicity of a Native Mummichog Population (Fundulus Heteroclitus) to Mercury,
W76-05742 9-12 5C

KOESTER, H. E.
Ground-Water Resources of Lackawanna County, Pennsylvania,
W76-02483 9-05 4B

KOFF, I.
Particle Vaporizer,
W76-08148 9-16 3B

KOGAN, B. I.
Efficient Chemical Method for the Treatment of Zinc Manufacturing Plant Generated Waste Waters (Effektivnyy khimicheskikh sposob ochistki stochnykh vod tsinkovogo zavoda),
W76-08268 9-16 5D

KOGAN, P. G.
Apparatus for Pumping Oil-Water Mixture from a Collection Vessel of a Floating Oil Collector into Settling Tanks,
W76-08403 9-16 5G

KOGBLEVI, A.
Influence of Waterlogging on Microbial Mineral Weathering, (In French),
W76-06730 9-13 5C

KOHL, A. L.
Direct Contact Multi-Stage Flash Desalination,
W76-09052 9-17 3A

KOHL, R. A.
Soil Water Uptake by Alfalfa,
W76-11504 9-21 3F

KOHL, W. R.
Map of Overdip Slopes that Can Affect Landsliding in Armstrong County, Pennsylvania,
W76-12300 9-23 7C

Map of Rock Types in Bedrock of Allegheny County, Pennsylvania,
W76-12791 9-24 7C

KOHLENSTEIN, L. C.
Mechanical-Draft Cooling Tower Visible Plum
Behavior: Measurements Models, Predictions
W76-04817 9-10

KOHLER, M. A.
Hydrology for Engineers, Second Edition,
W76-09661 9-18

KOHLHAAS, C. A.
Focus-Comprehensive Water Resourc
Management,
W76-00623 9-02

KOIDE, K.
Studies of Flocculation and Sedimentati
Treatment of Pulp Mill Effluents: An Approa
of a Closed System Using Calcium Alumina
Hydrates (In Japanese),
W76-09284 9-17

KOITZSCH, R.
Using Evaporation Values from Evaporati
Pans to Estimate the Water Consumption
Agricultural Plants as the Basis of Sprinkler
rigation Control, (In German),
W76-06729 9-13

KOIVO, A. J.
Optimal Estimation of DO, BOD, and Strea
Parameters Using a Dynamic Discrete Tir
Model,
W76-13167 9-24

KOJIMA, S.
Application of Bacteria for a New Treatme
Method of Factory Liquid Waste (Shi
biseibutsu ni yoru kojo haisui shori e no oyo)
W76-02983 9-06

KOJO, M.
Economics and Energy: Reducing Mill Ener
Consumption and Effluent Volume,
W76-09299 9-17

KOKOROPOULOS, P.
Designing Post-Chlorination by Chemical Rea
tor Approach,
W76-12150 9-22

KOKUBO, T.
Wasteless Liquid Treatment System for Su
face Coating Plants (Hyomen shori shisetsu
okeru muhaisui shori shisutemu ni tsuite),
W76-07625 9-15

KOL'TSOVA, T. I.
Relation Between Generation Time a
Biomass of Phytoplankton, (In Russian),
W76-11577 9-21

KOLAR, J. J.
Soil Water Uptake by Alfalfa,
W76-11504 9-21

KOLCZAK, L.
Lake Michigan Water Quality and Lake B
Survey, 1973,
W76-06937 9-14

KOLEGA, J. J.
Basic Performance Parameters for Oxygenati
and Liquid Circulation in Rotor-Aerated Liqu
Waste Systems,
W76-01092 9-03

A Perspective for Connecticut,
W76-04417 9-09

KOLEHMAINEN, S.
Mangrove-Root Communities in a Therma
Altered Area in Guayanilla Bay, Puerto Rico,
W76-03487 9-07

OLEHMAINEN, S. E.
Thermal Studies on Tropical Marine Ecosystems in Puerto Rico,
W76-08872 9-17 5C

OLIN, L.
The Quality and Treatment of Artesian Waters in Hungary (A Hazai Melysegi Vizek Kezelesenek Szuksegessege es Technologiaja),
W76-01453 9-03 5F

OLITZ, B. L.
New York Bight Project, Water Column Sampling Cruises No 1-5 of the NOAA Ship FERREL, August-November 1973,
W76-03187 9-07 7C

OLLAR, K. L.
Industrial Development Through Water-Resources Planning,
W76-09034 9-17 3E

OLLBERG, S.
Uptake Pathways and Elimination of a Nonionic Surfactant in Cod (Gadus Morrhua L.),
W76-11182 9-21 5C

OLLIAS, J.
Physiologic Responses to Water Immersion in Man: A Compendium of Research,
W76-09655 9-18 10C

OLLIAS, P. S.
A Contribution to Stabilization Ponds Design, (In Greek),
W76-12656 9-23 5D

OLLIG, H. P.
Determination of Dissolved Gases in Water by Diffusion and Gas Chromatographic Techniques,
W76-02427 9-05 5A

Dynamic Behavior of Vinyl Chloride in Aquatic Ecosystems,
W76-07247 9-14 5C

OLLMAR, U.
Filter Press,
W76-10481 9-19 5D

OLOBAEV, A. N.
Computer Application in Processing Technical and Economic Data for Optimizing Complex Water Resources Systems,
W76-12565 9-23 6A

OLODIN, M. V.
Water Distillation in the Turkmen SSR and the Uzbek SSR, (In Russian),
W76-03697 9-08 3A

OLODKIN, A. L.
The Delimitation of the North Sea Continental Shelf,
W76-12031 9-22 6E

OLOSHA, O. I.
The Water Regime, Enzymatic Activity and Frost-Resistance of Winter Wheat, (In Russian),
W76-00003 9-01 3F

OMAKI, S.
On the Prorocentrum Red Tide Occurred in the Coastal Waters of Toyoura, Funka Bay, Hokkaido, in September, 1973, (In Japanese),
W76-11740 9-22 5C

KOMAMURA, M.
The Softening of the Kanto Volcanic Ash Soil, (In Japanese),
W76-09925 9-18 2G

KOMAR, P. D.
Bayocean Spit, Oregon: History of Development and Erosional Destruction,
W76-00004 9-01 2L

Oregon Coast Shoreline Changes Due to Jetties,
W76-08342 9-16 8B

The Theory of Wave Propagation in Water of Gradually Varing Depth and the Prediction of Breaker Type and Height,
W76-00557 9-02 2L

KOMARATAT, P.
Isolation and Characterization of Actinopolyspora Halophila, Gen. ET SP. Nov., An Extremely Halophilic Actinomycete,
W76-08837 9-17 5C

KOMARENKO, N. I.
Induced Change of Nitrate Reductase Activity in Microcystis Aeruginosa Kutz. Emend. Elenk, (In Russian),
W76-09816 9-18 5C

KOMATSU, F.
Muddy Water Treatment System for Aggregate Plant, (In Japanese),
W76-07664 9-15 5D

KOMATSU, K.
Study on Waste Water Treatment with Calcium Silicates (I) on the Removal of CD(-), PB(-), CR(-) Salts, (In Japanese),
W76-03065 9-07 5D

KOMATSU, Y.
Wastewater Treatment System in Steel Mills, (In Japanese),
W76-05311 9-11 5D

KOMINEK, E. G.
Primary-Waste-Treatment Methods,
W76-03226 9-07 5D

Water Reuse at Ponderosa Paper Products, Inc., Flagstaff, Arizona,
W76-02474 9-05 5D

KOMISSAROVA, L. V.
Effect of the Mozhaysk Reservoir on Soil of the Bank Area of the Surrounding Territory, (In Russian),
W76-09081 9-17 2G

KOML, H.
High-Gradient Magnetic Separation,
W76-04787 9-10 5D

KOMORI, M.
Adsorption Treatment of Kraft Pulp Lignin Waste with Synthetic, Polymeric Adsorbents, (In Japanese),
W76-05289 9-11 5D

KOMSKII, M. S.
Gas-Liquid Chromatographic Determination of Butyl Acetate, Butanol and Acetone Present Together in Waste Waters, (In Russian),
W76-09929 9-18 5A

KOMURA, S.
Turbulence Measurement of a Flow with Suspended Solid Particles,
W76-01470 9-03 8B

KONDO, M.
Studies on the Adsorptive Effect of Activated Charcoal on Polychlorinated Biphenyls in Water (Yozon PCB no kaseitan kyuchaku shori ni kansuru kenkyu),
W76-03715 9-08 5F

KONDO, T.
On Spent Semichemical Pulping Liquors. (4) Xylan in Neutral Sulfite Semichemical Spent Liquor (In Japanese),
W76-09338 9-17 5C

Studies on Oxygen-Alkali Treatment of Ligneous Materials. Part V. Recycle and Reuse of Waste Liquor in O-PA-P Bleaching Sequence (In Japanese),
W76-09337 9-17 3E

KONDRAT'YEV, N. YE.
Hydraulic Computation of a Pool Hollow,
W76-05931 9-12 2E

KONDRATENKOV, A. P.
The Effect of Trematode Larval Infestation of Hydrobia Ulvae on Its Resistance to Drying and Water-Freshening, (In Russian),
W76-05421 9-11 5C

KONDRATYUK, V. A.
Effect of Pyridine Dissolved in Water on the Gastric and Intestinal Mucosa of Experimental Animals, (In Russian),
W76-11526 9-21 5C

KONENKO, A. D.
Winter Hydrochemical Conditions of Small Rivers in the Polesye of the Ukrainian SSR (The Pripyat Basin), (In Russian),
W76-12303 9-23 5C

KONEV, V. I.
Increase of Primary Production in a Bay of Malyi Zhemchuzhnyi Island (North Caspian) Using Inorganic Fertilizers, (In Russian),
W76-11553 9-21 5C

KONIKOFF, M.
Toxicity of Nitrite to Channel Catfish,
W76-00864 9-02 5C

KONIKOW, L. F.
Modeling Solute Transport in Ground Water,
W76-11076 9-20 5B

Modeling Solute Transport in Ground Water,
W76-11605 9-21 5B

KONNAI, M.
Fundamental Studies on Residue and Movement of Forestry Herbicides in Soil, (In Japanese),
W76-12263 9-23 5B

KONOMI, S.
Supported Semi-Permeable Membranes,
W76-09863 9-18 3A

KONRAD, T. G.
Radar Derived Spatial Statistics of Summer Rain - Data Reduction and Analysis,
W76-12179 9-23 7B

Radar Derived Spatial Statistics of Summer Rain - Experiment Description,
W76-12178 9-23 7B

KONTUR, I.
Hydrologic Systems Analysis Model for Generating Runoff Time Series (Hidrologiai) Rendszervizsgalati Modell Vizhozamidoser Eloallitasara (II. RESZ),
W76-09557 9-18 2A

KOO, R. C. J.
Effects of Nitrogen, Potassium and Irrigation on Yield and Quality of Lemon,
W76-06314 9-13 3F

Irrigation with Citrus Waste Water,
W76-11699 9-22 5D

KOO, T. S. Y.
Thermal Effects of Power Plant Entrainment on Survival of Fish Eggs and Larvae: A Laboratory Assessment,
W76-12769 9-24 5C

KOONCE, J. F.
Phosphorous Flux Through Fishes,
W76-09104 9-17 5C

KOONS, C. B.
Chemical Composition: A Control on the Physical and Chemical Processes Acting on Petroleum in the Marine Environment,
W76-11013 9-20 5B

Hydrocarbons in Water and Sediment Samples from Coal Oil Point Area, Offshore California,
W76-09384 9-17 5B

KOONSMAN, G. L.
Cement Producers Confront Anti-Pollution Legislation,
W76-01404 9-03 6E

KOOPOWITZ, H.
Heart Rate of the Crab Scylla Serrata (Forskal) in Air and in Hypoxic Conditions,
W76-03019 9-07 5C

KOPLYAY, T. M.
Urban Drainage Studies,
W76-09402 9-18 5B

KOPP, C. V. JR.
In Situ-Formed Condensation Polymers for Reverse Osmosis: Second Phase,
W76-03151 9-07 3A

KOPPE, P.
Laboratory and Pilot Experiments on the Anodic Oxidation of Cyanide in Galvanizing Waste Waters (Versuche im Labor und im Halbtechnischen Masstab zur Anodischen Oxidation des Cyanids in Galvanischen Abwassern),
W76-05286 9-11 5D

KOPPEL, L. B.
Optimal Activated Sludge Design Under Uncertainty,
W76-09628 9-18 5D

KOPPERMAN, H. L.
Chlorinated Compounds Found in Waste-Treatment Effluents and Their Capacity to Bioaccumulate,
W76-12891 9-24 5A

KOPPLEMAN, L. E.
Models for Implementing the CZMA's Concept of State-Local Relations,
W76-07803 9-15 6E

KOPREK, J.
The Influence of Grass-Carp Population (Ctenopharyngodon Idella Val.) on the Vegetation and Ecosystem of Lake Trakoscan, (In Serbo-Croatian),
W76-12272 9-23 5C

KORABEL'NIKOV, V. M.
Drinking Water Purification in Industrially Manufactured Compact Installations of the Type 'Struya', (In English),
W76-08579 9-16 5F

KORBITZ, W. E.
Fast Replacement of a Flood-Damaged Interceptor,
W76-08240 9-16 8F

KORDYSH, E. A.
Hygienic Assessment of Certain Surface-Active Substances-The Components of Effluents from Textile Industry Enterprises (Gigiyenicheskaya otsenka nekotorykh poverkhnost-noaktivnykh veshchestv-kompnentov stochnykh vod predpriyatiy tekstil'noy promyshlennosti),
W76-05342 9-11 5A

Hygienic Evaluation of Certain Surface-Active Substances, Components of Effluents from Textile Industry Enterprises, (In Russian),
W76-12314 9-23 5A

KORELYAKOVA, I. L.
A Brief Characterization of Shoals and Their Plant Cover in the Kremenchug Reservoir, (In Russian),
W76-08697 9-16 2H

KORENAGA, T.
Nitrosophenol and Nitrosonaphthol Derivatives as Reagents for Spectrophotometric Determination of Iron and Determination of Micro-Amounts in Waters with 2-Nitroso-5-Dimethylaminophenol,
W76-06303 9-13 5A

KORENEVSKAYA, V. E.
Effect of the Mozhaysk Reservoir on Soil of the Bank Area of the Surrounding Territory, (In Russian),
W76-09081 9-17 2G

KORENKOV, V. N.
Method of Biological Purification of Industrial Effluents from Chromates and Bichromates,
W76-06966 9-14 5D

Method of Biological Purification of Industrial Effluents from Chromates and Bichromates,
W76-09856 9-18 5D

Process for Purification of Industrial Waste Waters from Perchlorates and Chlorates,
W76-08395 9-16 5D

KORGEN, B. J.
A Seabed Drifter Study of Near-Bottom Circulation in North Carolina Shelf Waters,
W76-08350 9-16 2L

KORKISCH, J.
Atomic-Absorption Determination of Vanadium and Molybdenum in Tap Water and Mineral Waters After Anion-Exchange Separation,
W76-10869 9-20 5A

Determination of Seven Trace Elements in Natural Waters After Separation by Solvent Extraction and Anion- Exchange Chromatography,
W76-02469 9-05 5A

The Use of Ion Exchange Methods for the Determination of Trace Elements in Natural Waters-I: Cobalt, (In German),
W76-07408 9-14 2K

The Use of Ion Exchange Methods for t
Determination of Trace Elements in Natur
Waters-II: Cadmium, (In German),
W76-07409 9-14 2

KORKISHC, J.
Application of Ion Exchange Methods for t
Determination of Trace Elements in Natu
Waters-III: Thorium, (In German),
W76-07410 9-14 2

KORMANIK, R.
How Does Tank Geometry Affect the Oxyg
Transfer Rate of Mechanical Surface Aerator
W76-05593 9-12 5

KORMANIK, R. A.
Designing Microscreens. Here's Some Help,
W76-10033 9-19 5

KOROLEV, V. G.
Analysis of Sulfur-Containing Products Acc
mulated by Chlorella Mutants,
W76-05476 9-11

KORONELLI, T. V.
Petroleum-Oxidizing Bacteria from the Gulf
Finland, (In Russian),
W76-06788 9-13

KORONKEVICH, N. I.
Spring Runoff from Slopes, Small Draina
Basins, and River Basins,
W76-04968 9-10

KOROTKOV, K. B.
The Role of Freshwater Fish as a Possible Su
plier of P32 Under the Conditions of Polluti
of Natural Water Reservoirs by t
Radionuclide,
W76-06884 9-14

KORRINGA, P.
The Importance of Oil Pollution in the No
Sea,
W76-11026 9-20

KORSHUN, M. N.
Problem of Mercurialism in Connection w
Mercury Pollution of the Environment,
Russian),
W76-03796 9-08

KORTE, F.
Degradation of Persistent Organochlorine P
lutants by Gamma Radiation and its Possi
use for Waste-Water Treatment,
W76-09534 9-18

KORTE, N. E.
The Use of Carbon Dioxide in Sampling a
Preserving Natural Leachates,
W76-11634 9-22

KORVEN, H. C.
Evaluation of an Over-Extended Sprinkler
rigation System,
W76-00198 9-01

KOS, P.
Transport Phenomena Applied to Sludge D
watering,
W76-05264 9-11

KOSAKOWSKI, M. W.
Development Document for Effluent Limi
tions Guidelines and New Source Performan
Standards for the Insulation Fiberglass Ma
facturing Segment of the Glass Manufactur
Point Source Category,
W76-01215 9-03

OSCIELNIAK, H.
The Effect of Flocculants on Postcoagulation Sludge Dewatering (Wplyw flokulantow na odwadnialnosc osadow pokoagulacyjnych),
W76-09174 9-17 5D

OSCIELSKI, A.
The Potential for Rainfall Increases from Convective Clouds in the Northern Plains,
W76-06607 9-13 3B

OSEKI, M.
Activated Carbon Treatment of Pulp and Paper Waste Water,
W76-05730 9-12 5D

OSHIBA, N.
Studies on the Improvement Effect of Waste Liquor from Pulp Mills for the Soils: I. The Vegetation Experiments with Soybeans and Corn, (In Japanese),
W76-11563 9-21 5E

OSHKIN, V. M.
Study of Water Sorption on Biopolymers, (In Russian).
W76-11532 9-21 2K

OSIUR, D. R.
MIX2: A Computer Program for Modeling Chemical Reactions in Natural Waters,
W76-08062 9-15 7C

OSS, R. W.
Benthic Invertebrates,
W76-05877 9-12 5C

OSTENKO, I. I.
The Water Regime, Enzymatic Activity and Frost-Resistance of Winter Wheat, (In Russian),
W76-00003 9-01 3F

OSTER, E. L. C.
Industrial Experience of Sewage Sludge Processing with Zimpro Installations in the Netherlands,
W76-09709 9-18 5D

OSTOLICH, M. S.
Hauling Digested Sludge in Tank Cars,
W76-03844 9-08 5E

OSTOVETSKII, YA. I.
Standardization of the Content of Benzo(a)-Pyrene in Water Bodies, (In Russian),
W76-10351 9-19 5C

OSTOVETSKIY, Y. I.
Synthetic Surfactants in Urban Effluents and their Rate of Elimination in Biological Wastewater Treatment Plants (Sintetichskie poverkhnostnoaktivnye veshchestva v gorodskikh stokakh i effektivnost' ochistki ot nikh na biologicheskoy stantsii),
W76-00351 9-01 5D

OSTOVETSKIY, YA. I.
Specific Pollutants in Urban Waste Waters and the Efficiency of their Purification (Spetsificheskie zagryazneniya gorodskikh stochnykh vod i effektivnost' ikh ochistki),
W76-09002 9-17 5A

OSZALKA, E. J.
The Water Table on Long Island, New York, in March 1974,
W76-03911 9-08 4B

KOTEGAWA, K.
Desalting Recovery Facility for Cold Rolling Mill Waste Water (Reikan atsuen kojo sogo haisui no datsuen kaishu setsubi ni tsuite),
W76-04774 9-10 3E

KOTHANDARAMAN, V.
Some Water Quality Aspects in a Nascent Impoundment in Central Illinois,
W76-10950 9-20 5B

Water Quality Characteristics of the Illinois River at Peoria,
W76-10922 9-20 5A

KOTHNY, E. L.
Simple Trace Determination of Platinum in Geological Materials,
W76-02895 9-06 5A

KOTOLIKYAN, S. S.
Sewer Systems in the Communities Around Lake Sevan (Skhema kanalizatsii naselennykh mest, raspolozhennykh vokrug ozera Sevan),
W76-03195 9-07 5D

KOTRAS, T. V.
St. Lawrence Seaway: A New Goal of Year-Round Navigation,
W76-09942 9-18 2C

KOTT, H.
Survival of Enterobiruses on Vegetables Irrigated With Chlorinated Oxidation Pond Effluents,
W76-01767 9-04 5C

KOTT, Y.
Enteric Virus Behavior in Sand Dunes,
W76-01755 9-04 5D

KOTTEGODA, N. T.
Control of a River System with Two Storage Reservoirs,
W76-06422 9-13 4A

KOTTMEIER, M. F.
Magnetic Apparatus for Treating Liquids Containing Calcareous Matter,
W76-04283 9-09 5D

KOURANY, M.
Vibrio Parahaemolyticus in Seawater Off the Pacific Coast of Panama,
W76-06252 9-13 2L

KOVAC, T. W.
Effect of Aluminum(III) Hydrolysis on Alum Coagulation,
W76-00110 9-01 5F

KOVACIC, P. K.
Effects of Chlorine and Sulfite Reduction on Lake Michigan Invertebrates,
W76-13113 9-24 5C

KOVACIK, T. L.
Mercury Occurrence in Sediment Cores from Western Lake Erie,
W76-06137 9-12 5B

KOVACS, A.
Brine Infiltration in the McMurdo Ice Shelf, McMurdo Sound, Antarctica,
W76-02707 9-06 2C

KOVACS, G.
The Use of Ground-Water Resources in River Basin Development,
W76-07132 9-14 4B

KOVACS, I.
The Electrochemical Treatment of Industrial Waste Solutions and Sewage,
W76-06972 9-14 5D

KOVAL'SKIY, L. B.
Estimation and Mapping of the Rates of Fresh Ground-Water Renewal (Taking the Baltic Artesian Basin as an Example),
W76-04959 9-10 4B

KOVALEVSKAYA, A. M.
On the Mechanism of Gamma-Radiolysis of Effluents (K mekhanizmu gamma-radioliza stochnykh vod),
W76-12508 9-23 5D

KOVASZNAY, L. S. G.
Drag Reducing Polymer in Helicoidal Flow,
W76-11763 9-22 8B

KOVER, A. N.
Remote Sensing,
W76-05431 9-11 7B

KOVYGIN, G. F.
Certain Problems of Substantiating Permissible Densities of Surface Contamination with Beryllium, (In Russian),
W76-02320 9-05 5A

KOWAL, J.
The Hydrology of a Small Catchment Basin at Samaru, Nigeria: I. Seasonal Fluctuations in the Height of the Ground Water Table,
W76-01230 9-03 2F

KOWAL, J. M.
Water Use, Energy Balance and Growth of Maize at Samaru, Northern Nigeria,
W76-06298 9-13 3F

KOWALCZYK, C.
A Characteristic of the Lakes of the Leczynsko-Wlodawskie Lake District Based on Abiotic Environmental Factors, (In Polish),
W76-07943 9-15 5C

KOWALIK, P.
Finite Difference and Finite Element Simulation of Field Water Uptake by Plants,
W76-12830 9-24 2G

KOWALL, S. J.
The Hypsometric Integral and Low Streamflow in Two Pennsylvania Provinces,
W76-11743 9-22 2A

KOWALSKI, T.
How to Build A Floating Scrap Tire Breakwater,
W76-11944 9-22 8G

KOWNACKI, A.
The Water Fauna of the High Mountain Glacier Lakes in the Mandaras Valley in the High Hindu Kush, (In Polish),
W76-06166 9-13 5C

KOYAMA, K.
Recovery and Reuse of Tin-Nickel Alloy Pyrophosphate Plating Solution by the Combination of Reverse Osmosis and Ion Exchange (Gyaku-shinto ho, ion kokanho no kumiawase ni yoru suzu-nikkeru gokin pirorinsan mekki eiki no kaishu oyobi saishiyo),
W76-04037 9-09 5D

KOZAMA, K.
Studies on Colon Bacteria Groups Determination in Sewage Water (Gesuichu no daichokin gun shiken no kento),
W76-07005 9-14 5A

KOZATO, R.
Development of an Optimum Design Simulation for Screw Pump Plants and Its Application for the Ichihara Municipal Drainage Pump Plant (Sukuryu ponpujo saiteki sekkei shimureshon no kaihatsu to Ichihara-shi Ichihara usui haisui ponpujo e no tekiyorei),
W76-08001 9-15 8C

KOZERSKI, H. P.
A Mathematical Model of Blooms of Plankton Diatoms, (In German),
W76-10127 9-19 5C

KOZHOVA, O. M.
Bacterioplankton Production of Angara Reservoirs, (In Russian).
W76-04564 9-10 5C

Effect of Phenols and their Oxidation Products on Aquatic Plants and Content of Sulfhydryl Groups in Them, (In Russian),
W76-05276 9-11 5C

KOZIK, YE. M.
Calculating Snow Cover Density in the Kyzylcha Mountain River Basin,
W76-02912 9-06 2C

KOZIMOR, L. W.
Benefits from Water Pollution Abatement, Property Values,
W76-10580 9-20 5G

KOZLOVA, I. V.
Change in Planktonic Complexes in the Eutrophic Lake Baltym Due to Overgrowth by Weed,
W76-01172 9-03 5C

Characteristics and Production Potentials of Zooplankton from Lake Shchelkun in the Middle Urals, (In Russian),
W76-11737 9-22 5C

KOZLOVA, M. V.
Effect of the Operating Conditions of Recycling Water Supply Systems on the Quality of Reused Waste Waters, (In Russian),
W76-12907 9-24 5C

KOZLOWSKI, T. T.
Effects of Antitranspirants on Distribution and Utilization of Photosynthate in Pinus Resinosa Seedlings,
W76-06792 9-13 2I

Effects of Silicone Antitranspirant on Woody Plants,
W76-07260 9-14 2D

KOZMA, E. V.
Several Contributions to the Evaluation of The Dissolved Carbon Dioxide Content of Danube Water, (In German),
W76-02661 9-06 5B

Several Water Chemistry Data on the Knowledge of the Section of the Danube Between Budapest and Turnu Severin (1645-930 km) (Danubialia Hungarica LXVII), (In German),
W76-12574 9-23 5A

KOZMA, F.
Methods for Computing the Evaporation of Lake Fertoe, (In German),
W76-11741 9-22 2D

KRAATZ, W.
Mathematical Model for the Filling Process of the Retention Basin Stoehna (Mathematisches Modell fuer den Fuellvorganic des Hochwasser-Rueckhaltebeckens Stoehna),
W76-01054 9-03 2E

KRAEMER, T.
Postdepositional Injections of Uranium-Rich Solutions into East Pacific Rise Sediments,
W76-01098 9-03 8E

KRAHL, R. B.
Gulf Coast Lease Management Inspection Program,
W76-11006 9-20 5G

KRAHMER, U.
Measurement and Evaluation Methods for the Determination of the Unsaturated Hydraulic Conductivity of Soils in Situ, (In German).
W76-12799 9-24 2G

KRAIZMAN, M. A.
Full-Scale Tests of an Installation for Purification of Viscose Production Effluents by Electroflotation (Proizvodstvennye ispytaniya ustanovki elektroflotatsionnoi ochistki stochnykh vod viskoznykh proizvodstv),
W76-10837 9-20 5D

Use of Electrodialysis in the Water Recycling System of Viscose Production (Primenenie elektrodializa v sisteme vodooborota viskoznogo proizodstva),
W76-10848 9-20 5D

KRAJEWSKI, K.
The Simplified Integral Mathematical Model on a Small Low-Land Catchment,
W76-12831 9-24 2A

KRAKATITSA, T. F.
Interrelation Between Weight and Linear Indices in Black Sea Oysters, (In Russian),
W76-09087 9-17 2I

KRALJIK, J.
Practical Guide to Treatment of Chromium Waste Liquors,
W76-01678 9-04 5D

KRAMER, P. J.
Drought Tolerance of Pine Seedlings Under Various Climatic Conditions,
W76-00712 9-02 2I

KRAMER, R. H.
The Influence of Temperature on Scope for Activity in Cutthroat Trout, Salmo Clarki,
W76-02388 9-05 5C

KRAMER, W. L.
Insect Growth Regulators for the Control of Aquatic Midges,
W76-09997 9-18 5G

KRAMER, W. P.
Fortran Graphics Programs for Physical Oceanographic and Time Series Data,
W76-06661 9-13 7C

KRAMLICH, W. E.
Oxidation Ditch Treatment of Meat Packing Wastes,
W76-08223 9-16 5D

KRAMMES, J. S.
Mass-Wasting Processes in Watershed Management,
W76-02287 9-05 4C

KRANENBURG, C.
A Model of Turbulent Diffusion,
W76-11770 9-22 2E

KRASIL'SHCHIKOV, D. G.
Danger of Pesticide Pollution of Artificiall Replenished Groundwater Reserves, (In Russian),
W76-03649 9-08 5

Hygienic Evaluation of Polychloropinene an Alkylbenzene Sulfonate Present Together i Surface Waters, (In Russian),
W76-11530 9-21 5

KRASITSKII, V. P.
On Phillips' Theory of Equilibrium Range i the Spectra of Wind-Generated Gravity Wave
W76-12336 9-23 2

KRASNOVSKII, A. A.
Light-Induced Transformations of the Pigme Complex in Anacystis Nidulans,
W76-05479 9-11 5

KRASOVSKII, L. I.
The State of Water in Plant Tissues at Negati Temperatures under Natural Conditions, (Russian),
W76-08368 9-16

KRATZER, B. P.
Natural Fertilizer Production,
W76-02844 9-06 5

KRAUS, K. A.
Adsorption of Inorganic Materials on Activat Carbon,
W76-01748 9-04 5

Cross-Flow Filtration and Axial Filtration,
W76-05788 9-12 5

Water Research Program, Biennial Progre Report, for the Period March 15, 1962, March 15, 1964, (Oak Ridge National Laborat ry),
W76-04670 9-10

KRAUS, M.
The Role of Pollutee Taxes in Externali Problems,
W76-06226 9-13 5

KRAUS, M. P.
Evaluation of Toxicities and Environment Impact in 'Symbiotic' Water Reuse Systems,
W76-11665 9-22 5

KRAUSE, H. H.
Environmental Assessment of Future Dispos Methods for Plastics in Municipal Solid Waste
W76-02659 9-06 5

KRAUSZ, N. G. P.
Reform of Illinois Water Resource Laws wi Particular Reference to the Drainage Code a Closely Related Laws,
W76-12217 9-23

KRAUTER, K.
Heavy-Metal Tolerance in Algae from Co taminated Lakes Near Sudbury, Ontario,
W76-01197 9-03

KRAUTH, K.
The Effect of Various Designs of Ra Catching Basins on the Pollution of the Rece ing Water and the Economy of the Sew System (Die Auswirkung Der Verschieden Bauarten Von Regenuberlaufbecken Auf D Schmutzbelastung Des Vorfluters Und D Wirtschaftlichkeit Des Kanalnetzes),
W76-10198 9-19

Pollution of Water Bodies by Artificial Runoff of Rainwater Pollution by Waste Water of Mixed Sewers (Belastung der Gewaesser Durch Kuenstliche Ableitung von Niederschlaegen. Belastung Durch Abwaesser der Mischkanalisation),
W76-08009 9-15 5B

The Total Runoff Coefficient in Mixed Sewer Systems (Der Gesamtabflussbeiwert in Mischkanalisationen),
W76-00803 9-02 4A

The Treatment of Rain Water. Rain Overflow, Rain Overflow Basins, Rain Purification Tanks, Rain Catchment Basins (Die Behandlung de Regenwassers),
W76-00801 9-02 5D

Water Decontamination Through Rain Water Treatment in Storm Water Retention Tanks (Entlastung der Gewasser Duch Behandlung des Regenwassers in Regenueberlaufbecken),
W76-01289 9-03 2E

KRAUTH, KH.
The Efficiency of Immersed Trickling Filter Plants in the Practice (Die Leistung von Tauchtropfkoerperanlagen in der Praxis),
W76-01282 9-03 5D

KRAWIEC, R. W.
Seasonal Studies on the Relative Importance of Different Size Fractions of Phytoplankton in Narragansett Bay (USA),
W76-08686 9-16 5C

KRAYBILL, H. F.
Origin, Classification and Distribution of Chemicals in Drinking Water With an Assessment of Their Carcinogenic Potential,
W76-12886 9-24 5C

KRAYEV, V. F.
The Effect of Forest Stands on the Water Content of Rocks of the Loess Cover in the Western Regions of the Northern Black Sea Area, (In Ukranian),
W76-08303 9-16 4A

KREBS, C. T.
Reduction of Field Populations of Fiddler Crabs by Uptake of Chlorinated Hydrocarbons,
W76-11588 9-21 5C

KREBS, D. R.
Chemi-Mechanical Paper Mill and Municipal Waste Water Treatment Pilot Plant Study,
W76-02467 9-05 5D

KREBS, J. R.
Package Aerobic Waste Treatment System,
W76-04280 9-09 5D

KREH, T. V.
An Ecological Evaluation of a Thermal Discharge: Part VII: Postoperational Effects of a Power Plant on Phytoplankton and Community Metabolism in Western Lake Erie,
W76-04577 9-10 5C

KREISSL, J. F.
An Alternative Septage Treatment Method: Lime Stabilization/Sand-Bed Dewatering,
W76-02759 9-06 5D

KREITH, FRANK
Engineering and Ecological Evaluation of Antitranspirants for Increasing Runoff in Colorado Watersheds,
W76-02368 9-05 3B

KREJSA, R. J.
Polycultural Wastewater Reclamation at California Polytechnic State University--An Academic Instructional System,
W76-03567 9-08 5D

KREMEN, S. S.
Development of Assymmetric Cellulose Triacetate Membranes for Seawater Desalination,
W76-08283 9-16 3A

Development of Reverse Osmosis Membranes and Spiral Design Modules for Demineralization of Brackish Waters at Low Pressures,
W76-08373 9-16 3A

KREMER, P.
Nitrogen Regeneration by the Ctenophore Mnemiopsis Leidyi,
W76-10284 9-19 5C

KREPKOGORSKII, L. N.
Technique of Water Sampling in Sanitary Investigations of Large Bodies of Water, (In Russian),
W76-09928 9-18 5A

KRESTOVSKIY, O. I.
Role of Bogs in the Formation of Spring Flood Runoff Losses in the Drainage Basins of the Northwestern European USSR,
W76-06175 9-13 4A

Selection of Typical Small Drainage Basins for Investigating and Computing Spring Runoff from Large River Basins,
W76-10705 9-20 4A

KRETCH, C. J. H.
Contemporary Chlorine Disinfection Practices in Ontario,
W76-11250 9-21 5F

KREUTZMANN, R.
Benthogenic Phytodetritus in Eutrophic Coastal Waters as an Energy Source for Secondary Producers, (In German),
W76-10866 9-20 5C

KREYE, W. C.
Heavy Metal Release by Chlorine Oxidation of Sludges,
W76-03789 9-08 5D

KRIEGER, D. J.
Survival of Salmonellae, Total Coliforms and Fecal Coliforms in Swine Waste Lagoon Effluents,
W76-07155 9-14 5D

KRIEGER, H. L.
Radiochemical Methodology for Drinking Water,
W76-03635 9-08 5A

KRIEK, P. N.
Some Initial Effects on Water Quantity and Quality of an Experimental Roading and Timber Harvesting Operation in a Victorian Mountain Catchment,
W76-03447 9-07 4C

KRIMMEL, R. M.
A Comparison of Glacier Mass Balance by Glaciological, Hydrological and Mapping Methods, South Cascade Glacier, Washington,
W76-07125 9-14 2C

Glacier Applications of ERTS Imagery,
W76-03390 9-07 2C

KRISHNAMOORTHI, K. P.
Toxicity Studies of Photo-Film Wastes,
W76-02386 9-05 5C

KRISHNAMURTHI, N.
Computer Estimates of Natural Recharge from Soil Moisture Data - High Plains of Colorado,
W76-09761 9-18 2F

KRISHNAMURTHY, K.
A Survey of Environmental Features in a Section of the Vellar-Coleron Estuarine System, South India,
W76-08040 9-15 5C

KRISHNAMURTHY, R.
Structure of Reverse Osmosis Membranes,
W76-04503 9-10 3A

KRISHNAN, P.
Response of Activated Sludge to Quantitative Shock Loading,
W76-11201 9-21 5D

System Optimization for Pulp and Paper Industrial Wastewater Treatment Design,
W76-04190 9-09 5D

KRISHNAN, R. K.
Identification of Parameters in Transient Water Quality Models from Stochastic Data,
W76-07395 9-14 5G

KRISTENSEN, K. J.
A Model for Estimating Actual Evapotranspiration from Potential Evapotranspiration,
W76-08132 9-16 2D

KRISTIANSEN, E.
A System for Continuous Measurement of Photosynthetic Rate and Dark Respiration at Constant CO2-Level,
W76-04586 9-10 5C

KRISTIANSEN, J.
A Red Bloom in Horn So near Lemvig (N. W. Jutland), Caused by the Dinoflagellate Oxyrhis Marina, (In Danish),
W76-12264 9-23 5C

KRISTOFFERSSON, R.
Effect of a Sublethal Concentration of Phenol on Some Blood Plasma Enzyme Activities in the Pike (Esox Lucius L.) in Brackish Water,
W76-07977 9-15 5C

KRIUL'KOV, V. A.
Mechanism of Conversion of Lignin and its Derivatives in Natural Waters (Mekhanizm prevrashcheniya lignina i ego proizvodnykh v prirodnoj vode),
W76-09280 9-17 5B

KRIVAN, V.
Multi-Reaction Proton Activation Analysis for Traces of Molybdenum,
W76-09036 9-17 5A

KRIVANEC, H.
Atomic-Absorption Determination of Vanadium and Molybdenum in Tap Water and Mineral Waters After Anion-Exchange Separation,
W76-10869 9-20 5A

KRIZ, G. J.
Dairy Waste Management Alternatives,
W76-00434 9-01 5D

KRIZEK, R. J.
Water Quality Effects of a Dredging Disposal Area,
W76-08749 9-16 5C

KROCHTA, J. M.
Reduced-Water Cleaning of Tomatoes,
W76-04734 9-10 3E

KROCZA, W.
The Mercury Contents of Fish from Carinthian Lakes, (In German),
W76-07981 9-15 5C

KROLL, C. G.
Sediment Discharge from Highway Cut-Slopes in the Lake Tahoe Basin, California, 1972-74,
W76-12279 9-23 4C

KROLL, W.
Apparatus for the Aeration of Effluent with Oxygen-Containing Gas,
W76-05035 9-11 5D

KRONE, R. B.
Finite Element Model for Cohesive Sediment Transport,
W76-09264 9-17 2L

KROPF, F. W.
Inter-Relation of Key-Factors for Infiltration of Liquid Domestic Waste Into Soil,
W76-12679 9-24 5D

KROPFLI, R. A.
Radar Derived Spatial Statistics of Summer Rain - Data Reduction and Analysis,
W76-12179 9-23 7B

KROPOTOV, V. I.
For a More Complete Utilization of Sulfite and Sulfate Spent Liquors and Prehydrolyzates (Polnee ispol'zovat' sul'fitnye, sul'fatnye shcheloka i predgidrolizaty),
W76-02516 9-06 5B

KROPP, J. W.
Nitrate Removal by Anion-Exchange Resins,
W76-01562 9-04 5D

KROSHKIN, A. N.
Sediment Reservoirs in the Channels of Small Mountain Rivers,
W76-06177 9-13 2J

KROUSE, H. R.
Application of Isotope Techniques to Glacier Studies,
W76-01252 9-03 2C

O18/O16 Abundance Variations in Sierra Nevada Seasonal Snowpacks and Their Use in Hydrological Research,
W76-12169 9-23 2C

KROUSE, M. R.
Quality of Life and Income Redistribution: Objectives for Water Resources Planning,
W76-04534 9-10 6B

KRUEGER, D. L.
Coalescing Unit for Gravity Separator,
W76-10484 9-19 5G

KRUGER, J. F.
Comparison of Ecological Impacts of Postulated Oil Spills at Selected Alaskan Locations. Volume I. Introduction, Summary, Methodology, Evaluation and Appendices,
W76-12379 9-23 5C

KRUGER, P.
Stimulation of Geothermal Aquifers,
W76-02685 9-06 4B

KRUL, J. M.
The Relationship Between Dissimilatory Nitrate Reduction and Oxygen Uptake by Cells of an Alcaligenes Strain in Flocs and in Suspension and by Activated Sludge Flocs,
W76-09686 9-18 5D

KRUMMRICH, JERRY T.
Vulnerability of Channel Catfish to Largemouth Bass Predation,
W76-04401 9-09 2I

KRUNCHAK, M. M.
Method of Controlling the Process of Chemical Purification of Effluents (Sposob operataivnogo upravleniya protsessom khimicheskoi ochistki stochnykh vod),
W76-11389 9-21 5D

Process Control Method for the Chemical Purification of Wastewaters (Sposob operativnogo upravleniya protsessom khimicheskoy ochiskki stochnykh vod),
W76-07762 9-15 5D

KRUPA, D.
Preliminary Investigations on Mutual Growth Relations of the Populations of the Blue-Green Alga Microcystis Aeruginosa and Green Algae Monoraphidium Minutum and Scenedesmus Abundans in Bicultures,
W76-01140 9-03 5C

KRUPANIDHI, K. V. J. R.
Studies of Specific Capacities of Wells in Hard Rocks and Alluvial Formations of Mysore State,
W76-00485 9-01 4B

KRUPAUER, V.
Fish Culture in Warmed Waters in the Czechoslovak Socialist Republic (Chov Ryb V Oteplenych Vodach V Ceskoslovenske Socialisticke Republice),
W76-11595 9-21 5C

KRUSE, C. W.
Chlorination and Iodination of Poliovirus and F2,
W76-09196 9-17 5A

KRUSE, E. G.
Comparisons of Calculated and Measured Capillary Potentials from Line Sources,
W76-07768 9-15 2G

Steady Infiltration From Line Sources Buried in Soil,
W76-01065 9-03 3F

KRUTILLA, J. V.
A Simulation Model for the Management of Low Density Recreational Areas,
W76-06233 9-13 6B

Valuing Long-Run Ecological Consequences and Irreversibilities,
W76-11161 9-21 6G

KRUYT, D.
A Probabilistic Model of the Oil and Gas Discovery Process,
W76-09604 9-18 6A

KRUZIC, P. G.
Handbook of Forecasting Techniques,
W76-07062 9-14 6A

KRY, P. R.
Quantitative Stereological Analysis of Grain Bonds in Snow,
W76-07778 9-15 2C

The Relationship Between the Visco-Elas and Structural Properties of Fine-Grain Snow,
W76-07779 9-15

KRYGIER, J. T.
Changes in Storm Hydrographs After Ro Building and Clear-Cutting in the Oregon Co Range,
W76-02937 9-06

KRYLOVA, Z. A.
Spring Runoff from Slopes, Small Drain Basins, and River Basins,
W76-04968 9-10

KRZECZKOWSKA-WOLOSZYN, L.
Algae of Dam Reservoirs in the Sola Casc and Neighbouring Sectors of the River,
W76-01150 9-03

KRZYWICKA, A.
Preliminary Investigations on Mutual Gro Relations of the Populations of the Blue-Gr Alga Microcystis Aeruginosa and Green Al Monoraphidium Minutum and Scenedesm Abundans in Bicultures,
W76-01140 9-03

KU, H-C.
Effluent Irrigation of Rye and Ryegrass,
W76-12644 9-23

KU, H. F. H.
Hydrogeology Along the Proposed Barr Recharge-Well Alinement in Southern Nas County, Long Island, New York,
W76-01184 9-03

KU, W. C.
Equilibrium Adsorption of Inorganic Phosph by Lake Sediments,
W76-02562 9-06

KUB, M. E.
The Investigation of Ion Removal From Wa and Wastewater,
W76-07060 9-14

KUBELKA, V.
Chromatographic Determination of DMA DMF in Aqueous Medium,
W76-06390 9-13

Residual Organic Matter in Activated Slu Process Effluents. IX. Isolation from Wa Fractionation on Aluminum Oxide Colu and Attempts of Identification (Zbytkove l po aktivacnim procesu. IX. Izolace z vodn prostredi, deleni na kyslicniku hlinitem pokusy o identifikaci),
W76-10515 9-20

KUBES, D. J.
The BOD's and Toxicity of Effluents from S phite Pulping for Newsprint,
W76-04245 9-09

KUBICEK, F.
Production Conditions in Trout Brooks Beskid Mountains: Results of Research Car out Within the Framework of the I.B.P. in Years 1966 to 1971,
W76-06241 9-13

KUBIK-DOBOSZ, G.
The Influence of Gibberellic Acid and Kin on the Growth of Scenedesmus Quadrica (Turp.) Breb.,
W76-12941 9-24

UBIK, M.
Use of Ion Exchangers and Synthetic Sorbents for Removal of Color from Kraft Process effluents (Proby zastosowania jonitow i sorbentow syntetycznych do usuwania barwy ze sciekow posiarczanosych),
W76-05698 9-12 5D

UBO, R.
Elimination Method for Mercury Residue in Water (Suichu yozon suigin no jokyoho),
W76-08476 9-16 5D

UBO, T.
Separator,
W76-13148 9-24 5F

Sequential Treatment of Kraft Pulp Washing Wastewater by Pilot Plant: Activated Sludge Treatment, Lime Treatment, and Activated Carbon Adsorption Treatment (In Japanese),
W76-10854 9-20 5D

A Study of Renovation of Pulp Waste Water--Treatment of Unbleached Kraft Pulp Washing Waste Water with Lime, (In Japanese),
W76-04227 9-09 5D

Treatment of Kraft Pulp Wastewater With Lime (III): Treatment of the Integrated Bleaching Alkaline Water With Lime (Kurafuto parupu haisui no sekkaishor (III): Sarashi arukari sogo haisui no sekkai shori),
W76-02654 9-06 5D

KUBOTA, H.
Waste Water Treating Operation Using Microbial Membrane (I). Analysis of Resistance to Movement within Liquid Phase,
W76-03230 9-07 5A

KUBOTA, M.
Turbulence Measurement of a Flow with Suspended Solid Particles,
W76-01470 9-03 8B

KUBYSHKIN, G. P.
Estimate of the Effect of Flood-Plain Drainage on the Annual and Maximum Runoff of Small Rivers in the Ukraine (Dnieper Basin),
W76-05676 9-12 4A

KUCHAR, K. W.
Bacteriocoenose Studies on an Eutrophic Biotope, (In German),
W76-11535 9-21 5C

Bacteriocoenotic Studies on a Weakly Dystrophic Stream, (In German),
W76-11533 9-21 5C

Bacteriocoenotic Studies on an Oligotrophic Stream, (In German),
W76-11534 9-21 5C

KUCHERENKO, M. I.
Marine Soil Pollution and Self-Purification, (In Russian),
W76-09789 9-18 5A

KUCHIN, G. P.
Clarifiers with Suspended Sediment Layer for the Purification of Effluents (Osvetliteli so vzveshennym sloem osadka dlya ochistki stochnykh vod),
W76-11388 9-21 5D

KUCHNOW, K. P.
Thermal Tolerance of Stored Fundulus Heteroclitus Gametes: Fertilizability and Survival of Embryos,
W76-11180 9-21 5C

KUDO, A.
Uptake of Inorganic Mercury by Bed Sediments,
W76-00725 9-02 5B

KUDO, T.
Plan and Design of Sludge Treatment Facilities of Nishinagasawa Purification Plant, (In Japanese),
W76-00220 9-01 5F

KUDRIN, L. V.
Hygienic Assessment of the Flotation Reagent T-66 in the Water Bodies and its Maximum Permissible Concentration (Gigienicheskaya otsenka flotoreagenta T-66 v vode vodoemov i ego predel'no dopustimaya kontsentratsiya),
W76-03255 9-07 5C

KUDRINA, E. S.
Petroleum-Oxidizing Bacteria from the Gulf of Finland, (In Russian),
W76-06788 9-13 5C

KUDRNA, F. L.
The Prairie Plan,
W76-01011 9-03 5C

KUDRYAVTSEV, V. M.
The Number, Generation Time and Production of Bacteria in the Volga and Its Reservoirs in 1970, (In Russian),
W76-03262 9-07 5B

KUECK, D. R.
Oxidation Ditch Treatment of Meat Packing Wastes,
W76-08223 9-16 5D

KUEHL, D. W.
Chlorinated Compounds Found in Waste-Treatment Effluents and Their Capacity to Bioaccumulate,
W76-12891 9-24 5A

KUEHN, R.
Model Plant for Biological Removal of Phosphate from Communal Waste Water, III. Biological Phosphate Removal from Communal Waste Water Preliminarily Cleaned by a Biological Process (Modellverfahren Zur Biologischen Entphosphatung Kommunaler Abwaesser, III. Biologische Entphosphatung Biologisch Vorgereinigten Kommunalen Abwassers Enies Kalerwerkes),
W76-07057 9-14 5D

KUEHN, W.
Analytical Determination of Organic Chloro-Compounds By Temperature-Programmed Pyrohydrolysis (Zur Analytischen Erfassung Organischer Chlorverbindungen Mit Der Temperaturpro-Gammierten Pyrohydroyse),
W76-01766 9-04 5A

KUEHNAST, E. L.
Climate of Minnesota, Part VIII--Precipitation Patterns in the Minneapolis-St. Paul Metropolitan Area and Surrounding Counties,
W76-00504 9-02 2B

KUENZLER, E. J.
The Trophic State of North Carolina Lakes,
W76-12210 9-23 5C

KUESER, P. E.
Preliminary Studies on the Effects of Air Bubbles and Intense Illumination on the Swimming Behavior of the Striped Bass (Morone Saxitalis) and the Gizzard Shad (Dorosoma Cepedianum),
W76-08658 9-16 8I

KUFF, K. R.
Cockeysville Quadrangle: Geology, Hydrology and Mineral Resources,
W76-04407 9-09 7C

KUGELMAN, I.
Municipal Wastewater Reuse in the U.S.,
W76-02189 9-05 5D

KUGELMAN, I. J.
Instrumentation and Automation of Wastewater Collection and Treatment Systems, (Literature Review),
W76-12901 9-24 5D

KUHN, P. M.
Ice Thickness Distribution as Inferred from Infrared and Microwave Remote Sensing During the Bering Sea Experiment,
W76-04996 9-10 2C

KUHN, W.
A Solution of Transit Problems Arising in Pipes Carrying Encrustating and Sedimentating Waste Waters (Loesung Von Transportproblemen Bei Inkrustierenden und Sedimentierenden Abwassern in Rohrleitungen),
W76-07666 9-15 5D

KUHNER, J.
Hydraulic Collection and Disposal of Refuse,
W76-11138 9-21 5D

KUHNERT, B. R.
The Effect of In Vivo Chromium Exposure on Na/K- and Mg-ATPase Activity in Several Tissues of the Rainbow Trout (Salmo Gairdneri),
W76-10337 9-19 5C

KUHNERT, R. M.
The Effect of In Vivo Chromium Exposure on Na/K- and Mg-ATPase Activity in Several Tissues of the Rainbow Trout (Salmo Gairdneri),
W76-10337 9-19 5C

KUHNLE, J. A.
Removing Heavy Metal Ions from Water,
W76-04610 9-10 5D

Removing Heavy Metal Ions from Water,
W76-08401 9-16 5D

KUHNS, R. E.
Apollo County Park Wastewater Reclamation Project. Antelope Valley, California,
W76-12864 9-24 5D

KUL'SKII, L. A.
Interaction of Blue-Green Algae with Multiply-Charged Inorganic Cations, (In Russian),
W76-11736 9-22 5A

KULANDAIVELU, G.
Changes in the Reactivity of the Photosynthetic Apparatus in Heterotophic Ageing Cultures of Scenedesmus Obliquus. II. Changes in Ultrastructure and Pigment Composition,
W76-13110 9-24 5C

Changes in the Reactivity of the Photosynthetic Apparatus in Heterotrophic Ageing Cultures of Scenedesmus Obliquus. I. Changes in the Photochemical Activities,
W76-13109 9-24 5C

Changes in the Reactivity of the Photosynthetic Apparatus in Heterotrophic Ageing Cultures of Scenedesmus Obliquus. III. Recovery of the Photosynthetic Capacity in Aged Cells,
W76-13111 9-24 5C

KULEBAKINA, L. G.
Influence of Salinity and Concentration of Sr and Ca in Water on the Sr90 Accumulation by Cystoseira,
W76-06903 9-14 5C

Mathematical Model of Sr90 Exchange Between Cystoseira and Marine Water,
W76-06899 9-14 5C

KULEMINA, N. M.
Some Characteristics of the Process of Incomplete Meandering of the Channel of the Upper OB' River,
W76-06178 9-13 4A

KULIEV, Z. M.
Stages of Salmo Fario Linne Development in the Chaikendsk Salmon Factory (USSR), (In Russian),
W76-00468 9-01 2I

KULIKOV, N. V.
Decrease of Strontium-90 Content in the Tundra Soil-Vegetation Cover, (In Russian),
W76-11565 9-21 2K

Effect of the Soil Moisture Regime on the Passage of Strontium-90, Cesium-137 and Cerium-144 from Soil into Solution, (In Russian),
W76-12868 9-24 5B

Migration of Sr90 from Fish Organisms into Offsprings,
W76-06883 9-14 5C

Radioactive Isotopes in the System Water--Freshwater Plants,
W76-06866 9-14 5B

KULIKOV, YU. G.
Optimal Height of a Dam for Preservation of Bearing Ground in a Frozen State,
W76-02910 9-06 8D

KULIKOVA, K.
The Effect of Pesticides on the Quality of Bodies of Water, (In Russian),
W76-11733 9-22 5C

KULIKOVA, V. G.
Migration of Sr90 from Fish Organisms into Offsprings,
W76-06883 9-14 5C

KULIN, G.
A Guide to Methods and Standards for the Measurement of Water Flow,
W76-13000 9-24 8B

KULKARNI, A. K.
A Study of Extreme Point Rainfall over Flash Flood Prone Regions of the Himalayan Foothills of North India,
W76-00299 9-01 2B

KULKARNI, D. N.
Defluoridation of Water by Nalgonda Technique,
W76-01543 9-04 5F

KULLENBERG, G.
The Distribution of Particulate Matter in a Northwest African Coastal Upwelling Area,
W76-03888 9-08 2L

Vertical Mixing Characteristics in the Thermocline and Hypolimnion Regions of Lake Ontario,
W76-11308 9-21 2H

KULSKII, L. A.
Water Purification Coagulant Production,
W76-02839 9-06 5D

KUMAI, M.
Identification of Nuclei and Concentrations of Chemical Species in Snow Crystals Sampled at the South Pole,
W76-10696 9-20 2C

KUMAR, J.
Selecting and Installing Synthetic Pond Linings,
W76-02431 9-05 8G

KUMAR, S.
Seed Germination and Early Seedling Growth of Wheat (Triticum Aestivum Linn.) CV. 1553 Under the Influence of Salinity and Plant-Growth Hormones,
W76-10169 9-19 3C

KUNDU, P. K.
Ekman Veering Observed Near the Ocean Bottom,
W76-08129 9-16 2L

Modal Decomposition of the Velocity Field Near the Oregon Coast,
W76-04974 9-10 2L

Some Three-Dimensional Characteristics of Low-Frequency Current Fluctuations Near the Oregon Coast,
W76-08336 9-16 2L

KUNITSYN, B. N.
New Anticorrosion Coating, 4P, For Drinking Water Tanks on Ships, (In Russian),
W76-02357 9-05 5G

KUNKEL, J. R.
Analysis of a Multipurpose Water Resource System in Southeastern Mexico,
W76-02157 9-05 6A

KUNKLE, G. R.
Monitoring Ground-Water Quality Near a Sanitary Landfill,
W76-06684 9-13 5A

KUNKLE, S. H.
Concentrations and Cycles of Bacterial Indicators in Farm Surface Runoff,
W76-00483 9-01 5B

KUNKLER, J. L.
Flood Discharge of Streams in New Mexico as Related to Channel Geometry,
W76-12294 9-23 2E

KUNTE, H.
The Determination of Phenols in Water: Gas Chromatographic Identification by Means of the Electron Affinity, (In German),
W76-11552 9-21 5A

KUNTZE, E.
Construction and Equipment of Sewage Plants, New Tendencies in the Field of Construction and Equipemnt of Sewage Plants (Bau und Ausruestung von Abwasseranlagen),
W76-00787 9-02 5D

KUNZ, O.
Apparatus for the Separation of Difficultly Miscible or Non-Miscible Liquids,
W76-03660 9-08 5G

KUO, J. F.
Structure of Reverse Osmosis Membranes,
W76-04503 9-10 3A

KUO, J. T.
Drag Reducing Polymer in Helicoidal Flow,
W76-11763 9-22 8

KUO, P. P. K.
Fundamental Study on the Post Treatment
RO Permeates from Army Wastewaters,
W76-12851 9-24 5

KUPEC, J.
Improved Formazan Test for the Determinatio
of the Dehydrogenase Activity of Activate
Sludge in Waste Water Treatment Plants f
the Joint Biological Purification of Urban an
Tannery-Generated Waste Waters (Verfeinert
Formazantest der Dehydrogenasenaktivita
von Belebtschlaemmen In Anlagen zur Gemei
samen Biologischen Reiningung von Ge
bereiabwaessern und Staedtischen Abwae
sern),
W76-07518 9-15 5

KUPPENBENDER, G.
Purification of Waste Water Containing O
ganic and Inorganic Impurities,
W76-10966 9-20 5

KUPPERMAN, S. H.
Property--Susceptibility of Beds of Navigab
Waters to Private Ownership,
W76-07810 9-15 6

KUPRIYANOV, V. V.
Hydrologic Aspects of Urbanization,
W76-05925 9-12 4

KUPRIYANOVA, V. M.
Biological Effects of Ru106 and J131 on Wat
Organisms,
W76-06885 9-14 5

Some Data on Comparative Evaluation
Radioactive and Chemical Pollution Factors
Freshwater Reservoirs,
W76-06886 9-14 5

KUPYROV, V. N.
Hygienic Evaluation of an Epoxy Compoun
and the Possibility of its Use in Submersib
Electric Pumps for Domestic Purposes, (
Russian),
W76-11528 9-21 5

KURACHEV, V. M.
Dynamics of Salts SiO2, R2O3, MnO an
Water-Soluble Organic Matter in Undergrou
Water, (In Russian),
W76-13043 9-24 5

KURAHASHI, Y.
Present Situation of Alkali Wastewat
Neutralization Equipment Used for Stack G
Desulfurization (Haien datsuryuyo aruka
haieki chuwa sochi riyo no jissai ni tsuite),
W76-04030 9-09 5

KURAMOTO, K.
Sewage Purification Device (Osui joka sochi),
W76-00770 9-02 5

KURELLA, G. A.
Diffusion of Mineral Ions Through the Wall
Nitella Cells,
W76-05477 9-11 5

KURITA, K.
Process for Treating Aldehydes,
W76-04087 9-09 5

RMANGALIYEV, R. M.
Role of Precipitation in the Chemistry of Subsurface Waters in the Western Part of the Turgay Trough,
W76-10942 9-20 2F

ROCHKINA, L. L.
Carbohydrate Transformation in Wheat and Rye Plants Under Effect of Flooding in the Autumn-Winter Period, (In Russian),
W76-08307 9-16 3F

ROKI,
Studies on a Purified Diet of Prawn: IV. Evaluation of Protein, Free Amino Acids and Their Mixture as Nitrogen Source, (In Japanese),
W76-12992 9-24 5C

ROSAKI, N.
Effects of Soil Moisture on Growth of Japanese Rabdosia, (In Japanese),
W76-06771 9-13 2I

RTZ, L. T.
Natural (15)N Abundance in Soil, Leaves, and Grain as Influenced by Long Term Additions of Fertilizer N at Several Rates,
W76-08765 9-17 3F

RYSHEVA, N. G.
Hygienic Standardization of DD and DDB Compounds in Water Bodies, (In Russian),
W76-02406 9-05 5B

RZEME, M.
Earth Pressure Observations on a Retaining Wall in Expansive Clay, Gougher Street Mail Exchange, Adelaide,
W76-08424 9-16 8D

RZMANN, G. E.
Ozone in Drinking Water Preparation (Ozon in Der Wasseraufbereitung),
W76-07501 9-15 5F

SHLAN, J. A.
Differential Responses to Drought in Two Species of Fundulus,
W76-06132 9-12 2H

Relation of Water Level and Fish Availability to Wood Stork Reproduction in the Southern Everglades, Florida,
W76-05850 9-12 2I

SHNER, D. J.
Heavy Metal Binding Components of River Water,
W76-03651 9-08 5A

SHNIRENKO, M. D.
Possible Physiological Methods of Diagnosing the Irrigation Time of Peach Trees, (In Russian),
W76-07989 9-15 3F

SLER, J. A.
Strengthening Lake-Shoreland Management in Massachusetts,
W76-10264 9-19 6E

SNETSOV, A. S.
First Results of Investigations of the Water Balance in Rivers in the Upper Kolyma Basin,
W76-02926 9-06 2E

SZNIK, W.
The Effect of Flocculants on Postcoagulation Sludge Dewatering (Wplyw flokulantow na odwadnialnosc osadow pokoagulacyjnych),
W76-09174 9-17 5D

KUTAKOV, K. V.
Sources of Contamination of Artesian Waters by Carcinogenic Hydrocarbons, (In Russian),
W76-05265 9-11 5B

KUTHY, R. A.
Field Evaluation of a Recharge Basin,
W76-11872 9-22 4B

KUTSUKI, T.
Pressurized Oxidation of Pulp Spent Liquor (Parupu haieki no kaatsu snaka),
W76-08696 9-16 5D

KUTT, E. C.
Report on a Biochemical Red Tide Repressive Agent,
W76-07618 9-15 5C

KUTTY, M. N.
Influence of Upper and Lower Temperature Extremes on the Swimming Performance of Tilapia Mossambica,
W76-03776 9-08 5C

KUTUZOVA, R. S.
Iron-Manganese Microorganisms Studied by Overgrowing Technique, (In Russian),
W76-09813 9-18 5A

KUWABARA, K.
Method for Treating Pulp-Containing Waste Liquors,
W76-12404 9-23 5D

Process for Treatment of Paper Pulp-Containing Effluents (Verfahren zur Behandlung von papierbreihaltigen Abfallfluessigkeiten),
W76-12501 9-23 5D

KUWAYAMA, K.
Recent Trends of Process Control for Water Works and Drainage (Jogesuido purosesu seigyo no doko),
W76-09214 9-17 5G

KUWERT, E.
Comparative Studies on the Action of Chlorine and Ozone on Polio-Viruses in the Reprocessing of Drinking Water in Essen (Vergleichende Untersuchungen Ueber die Wirkung von Chlor und Ozon auf Polioviren bei der Trinkwasseraufbereitung der Stadt Essen),
W76-03345 9-07 5F

KUZ'MINA, A. E.
Effect of Hydraulic Engineering Construction on Phytobenthos of the OB and Yenisei Rivers, (In Russian),
W76-04938 9-10 5C

KUZNETSOV, A. I.
Production Studies on the Electrolytic Method of Recovering Zinc from Effluent Sediments (Proizvodstvennye issledovaniya elektroliticheskogo sposoba regeneratsii tsinka iz osadkov stochnykh vod),
W76-10846 9-20 5D

KUZNETSOV, A. S.
Peculiarities of Formation of Runoff of the Upper Kolyma Basin,
W76-02927 9-06 2C

KUZNETSOV, M. S.
Method of Evaluating the Effectiveness of Techniques for Increasing the Resistance of Soils to Erosion, (In Russian),
W76-09805 9-18 4D

KUZNETSOV, S. I.
Method of Biological Purification of Industrial Effluents from Chromates and Bichromates,
W76-06966 9-14 5D

Method of Biological Purification of Industrial Effluents from Chromates and Bichromates,
W76-09856 9-18 5D

Process for Purification of Industrial Waste Waters from Perchlorates and Chlorates,
W76-08395 9-16 5D

KUZNETSOV, V. A.
Fry Distribution in the Lower Sviyaga Bay of the Kuibyshev Reservoir, (In Russian),
W76-01752 9-04 2H

KUZUOKA, T.
Mathematical Model of Water Characteristics in the Sewage Treatment Plant (Gesui shorijo ni okeru suishitsu tokusei no sushiki model),
W76-01451 9-03 5D

KUZYCHEVA, T. Y.
Effectiveness of Water Utilization by Plants, (In Ukranian),
W76-09809 9-18 2D

KVITKO, K. V.
Analysis of Sulfur-Containing Products Accumulated by Chlorella Mutants,
W76-05476 9-11 5C

KWIATKOWSKI, R. W.
Engineering the Bear Swamp Project,
W76-01010 9-03 6A

KWON, C. S.
Development, Growth, and Relationship Between Temperature and Metamorphosis Rate of the Earlier Larvae on Macrobrachium Rosenbergi (De Maan), (In Korean),
W76-04208 9-09 2I

KYRYLENKO, A. S.
Phytoplankton in Northern Donetsk Ponds for Additional Treatment, (In Ukranian),
W76-08577 9-16 5C

KYSELOWA, K.
Algae of Dam Reservoirs in the Sola Cascade and Neighbouring Sectors of the River,
W76-01150 9-03 5C

KYSER, J. M.
Analysis of Three Years of Complete-Field Temperature Data From Different Sites of Heated Surface Discharges into Lake Michigan,
W76-02683 9-06 5B

LA CLAIR, L. M.
Integral Circular Wastewater Treatment Process,
W76-11222 9-21 5D

LA POINTE, A. E.
Mineral Resource Management of the Outer Continental Shelf.
W76-09306 9-17 6G

LA ROCHE, G.
Analytical Approach in the Evaluation of Biological Damage Resulting from Spilled Oil,
W76-05153 9-11 5C

LA VALLE, P. D.
Domestic Sources of Stream Phosphates in Urban Streams,
W76-01263 9-03 5B

LAAG, A. E.
Evapotranspiration of Dryland Barley With Different Plant Spacing Patterns,
W76-01697 9-04 2D

LAAKSONEN, R.
Changes in Water Quality in Finnish Lakes and Rivers 1962-1973 (in Finnish with English Summary),
W76-06212 9-13 5C

LABADIE, J. W.
Computing the Big Picture,
W76-02874 9-06 3D

Detention Storage Control Strategy Development,
W76-07236 9-14 5D

Minimization of Combined Sewer Overflows by Large-Scale Mathematical Programming,
W76-02878 9-06 5D

Step-Drawdown Test Analysis by Computer,
W76-01300 9-03 4B

LABAT, R.
Effect of Copper Sulfate on Mucus Cells in Young Trout (Salmo Irideus), (In French).
W76-11545 9-21 5C

Principle of a Technical Device for the Study of Toxic Effluents in Water Pollution, (In French),
W76-12255 9-23 5A

Toxic Action of Copper on the Gills of Carp (Cyprinus Carpio), (In French),
W76-08260 9-16 5C

LABEAU, B.
Ferric Chloride and Organic Polyelectrolytes for the Removal of Phosphorus,
W76-07059 9-14 5D

LABENSKI, K. O.
Preparation of Polyester Jacketed Soil Columns as Penetration, Suction Plate and Groundwater Lysimeters, (In German),
W76-07272 9-14 2G

LABEYRIE, L. D.
Comparison of the Distributions in Marine Sediments of the Fallout Derived Nuclides Fe 55 and Pu 239,240, A New Approach to the Chemistry of Environmental Radionuclides,
W76-08603 9-16 5B

LABOUREUR, P.
Biodegradability and Process for Biological Purification of Waste Water (La Biodegradabilite et Les Procedes D'Epuration Biologique Des Effluents),
W76-09693 9-18 5D

LABUDA, D.
Valyl tRNA's of Anacystis Nidulans,
W76-08827 9-17 5C

LACATUSU, R.
The Effect of Certain Synthetic Macromolecular Substances on the Physico-Chemical Properties of Soil and on the Fertilizer Utilization Coefficient, (In French),
W76-08981 9-17 2G

LACAZE, J. C.
Ecotoxicology of Crude Oils and the Use of Experimental Marine Ecosystems,
W76-11586 9-21 5C

The Effects of Three Anti-Petroleum Agents on the Primary Productivity of an Experimental Community of Benthic Diatoms, (In French),
W76-07317 9-14 5C

Effects of Three Emulsifying Agents Against Crude Oil on the Primary Productivity of an Experimental Community of Benthic Diatoms,
W76-10831 9-20 5C

Marine Molysmology: The Primary Production of Experimental Ecosystems Set up in the Rance River Estuary. Effect of Crude Oil,
W76-10830 9-20 5C

Preliminary Laboratory Research in Experimental Brackish Ecosystems,
W76-01165 9-03 5C

LACEWELL, R. D.
Adjustments Due to a Declining Groundwater Supply: High Plains of Northern Texas and Western Oklahoma,
W76-10874 9-20 4B

The Effect of Changing Input andProduct Prices on the Demand for Irrigation Water in Texas,
W76-10810 9-20 3F

An Evaluation of Weather Modification Activities in the Texas High Plains,
W76-03104 9-07 3B

LACHAPELLE, E. R.
Cascade Passes Avalanche Atlas, Part I: Chinook, Cayuse, White and Snoqualmie Passes,
W76-04318 9-09 7C

Development of Methodology for Evaluation and Prediction of Avalanche Hazard in the San Juan Mountain Area of Southwestern Colorado,
W76-06605 9-13 2C

Methods of Avalanche Control in Washington Mountain Highways--Summary Report,
W76-01492 9-03 2C

Methods of Avalanche Control on Washington Highways, Fourth Annual Report,
W76-02546 9-06 2C

LACINA, W. V.
Meter Replacement Program Pays for Itself,
W76-06630 9-13 6C

LACK, T. J.
Observations and Experiments on the Phytoplankton of Blelham Tarn, English Lake District I. The Experimental Tubes,
W76-06758 9-13 5C

LACKEY, J. B.
Entrainment Studies at Turkey Point on Biscayne Bay: Have Thermal Effects Affected the Plankton of Biscayne Bay,
W76-08645 9-16 5C

LACOMBE, D.
Balanidae as Pollution Indicators in the Bay of Guanabara, (In Portuguese),
W76-09823 9-18 5A

LACOURLY, G.
Can the Criteria and Methodology Used for Radioactive Discharges be Applied to Thermal Discharges. (Les Criteres et La Methodologie Retenus Pour les Rejets Radioactifs Sont-Ils Transposables Aux Rejets Thermiques.),
W76-08887 9-17 5G

LACROIX, G.
Penetration of the Deep Layer of the Saguen Fjord by Surface Waters of the St. Lawren Estuary,
W76-06674 9-13

LACY, W. J.
Zero Discharge of Industrial Wastewaters,
W76-03834 9-08

LADER, P.
Legal Aspects of Public Access to Beaches,
W76-13104 9-24

LADIGES, P. Y.
Variation in Drought Tolerance in Eucalyp Viminalis Labill,
W76-07398 9-14

LADMIRAL, D.
(Papeteries de France) Aussedat-Rey: Inau ration of the New Effluent Purification Stat at Saillat (France) (Inauguration a Saillat de nouvelle station d'epuration des ea residuaires),
W76-03580 9-08

LADUE, E. L.
Environmental, Economic, and Physical C siderations in Liquid Handling of Dairy Ca Manure,
W76-01023 9-03

LADURON, D.
Detection of Zinc in Champy-Maille Histological Stain by Electron Probe Analysi
W76-02891 9-06

LAEVASTU, T.
Multilayer Hydrodynamical-Numerical Mode
W76-10429 9-19

LAFEVERS, J. R.
A Guide to State Programs for the Reclamati of Surface Mined Areas,
W76-09142 9-17

LAFLEN, J. M.
Effect of Tillage Systems on Runoff Losses Pesticides: A Simulated Rainfall Study,
W76-11169 9-21

Nitrogen and Sulfur Content and pH Precipitation in Iowa,
W76-06208 9-13

Plant Nutrient Losses From Tile-Outlet T races,
W76-00723 9-02

LAFOND, C. A.
Deepwater Exchanges in Bute Inlet, Brit Columbia,
W76-04096 9-09

LAFORTE, E. J.
Apparatus for Generating an Oxidizing Reag for the Treatment of Polluted Water,
W76-07439 9-14

LAGALLY, H. R.
Biological Availability of Mercury in Swordf (Xiphias Gladius),
W76-07694 9-15

LAGERWERFF, J. V.
Reclamation of Soils Contaminated w Radioactive Strontium,
W76-05906 9-12

Retention of Metals in Sewage Sludge II: Inc porated Radioisotopes,
W76-10006 9-19

OCKI, H. F. R.
ratified Sampling of Soil Moisture,
76-02457 9-05 2G

RAFF, M. B.
ater Quality Management Planning for Urban unoff,
76-02758 9-06 5D

AV, N.
indane Residues in the Southern Coastal quifer of Israel,
76-07396 9-14 5B

IRI, A. N.
conomic Analysis of Wheat Production with ertilizer Under Adequate and Limiting Irrigaon Water,
76-03277 9-07 3F

HTVEE, R.
rocess for Reducing the Amount of Calcium ontained in Magnesium-Base Waste Sulfite iquor by the Use of an Ammonium Comound and Additional Calcium,
76-01669 9-04 5D

I, C.
oop-rating Curves for Various Unsteady lows,
76-00088 9-01 8B

I, H. T.
ctive Carbon: Dechlorination and the Adsorion of Organic Compounds,
76-00113 9-01 5D

I, R. J.
elocity Gradient Calibration of Jar-Test Equipment,
76-03695 9-08 5A

I, R. Y. S.
Moody Diagram for Direct Pipe Diameter Calculation,
76-01793 9-04 8B

ING, D.
Riparian Dendrochronology: A Method for Determining Flood Histories of Ungaged Watersheds,
76-11523 9-21 4A

IRNS JR, J.
Preplanning Mining Operations to Reduce the Environmental Impact of Mine Drainage on Streams,
76-06939 9-14 5G

KE, P. S.
Pollution of a Tasmanian River by Mine Effluents: II. Distribution of Macroinvertebrates,
76-07705 9-15 5B

Toxicity Bioassays of Cadmium on Selected Freshwater Invertebrates and the Interaction of Cadmium and Zinc on the Freshwater Shrimp, Paratya Tasmaniensis Riek,
76-07700 9-15 5C

KSHMAN, G.
Monitoring Agricultural Pollution Using Natural Fluorescence,
76-03387 9-07 5A

AL, D.
Stokes' Settling and Chemical Reactivity of Suspended Particles in Natural Waters,
76-03878 9-08 2L

LAL, P.
A Comparative Study of the Effect of Qualities of Irrigation Water on Different Soils,
W76-08301 9-16 3C

LAL, V. B.
Design of Water Resources Project with Inadequate Data in India - General and Particular Case Studies,
W76-09621 9-18 4A

LAM, D. C. L.
Computations of Physical Transport and Regeneration of Phosphorus in Lake Erie, Fall 1970,
W76-08531 9-16 5B

Numerical Computations of Advective and Diffusive Transports of Chloride in Lake Erie, 1970,
W76-08530 9-16 5B

LAMANTIA, J.
Process of Water Treatment,
W76-10971 9-20 5F

Water Treatment Device with Transitorized Circuit,
W76-11833 9-22 5F

LAMARRA, V. A. JR.
Digestive Activities of Carp as a Major Contributor to the Nutrient Loading of Lakes,
W76-09103 9-17 5C

LAMB, B. L.
Establishing Instream Flows: Analysis of the Policy-Making Process in the Pacific Northwest,
W76-11339 9-21 6B

Regional Instream Flow Needs in the Pacific Northwest: An Analysis of Institutional, Legal, and Technological Aspects of Allocation Processes for Limited Streamflow,
W76-01797 9-04 6B

LAMB, J. C. III
Characterization and Treatment of Brine Wastewaters From the Cucumber Pickle Industry,
W76-10805 9-20 3E

LAMB, T. E.
Report of the Annual Yield of the Arkansas River Basin for the Arkansas River Basin Compact, Arkansas--Oklahoma,
W76-05416 9-11 4A

LAMBERT, J. L.
Demand Bactericide for Disinfecting Water and Process of Preparation,
W76-08391 9-16 5D

LAMBERT, J. P.
Legal Aspects of Limited Entry for Commercial Marine Fisheries,
W76-06821 9-14 6E

LAMBERT, J. R.
Simulation of Deep Seepage to a Water Table,
W76-09245 9-17 2F

Soil Moisture Regime with Subirrigation,
W76-13023 9-24 2G

LAMBERT, W. P.
Wastewater Reuse Within an Army Field Hospital,
W76-11269 9-21 5D

LAMBINA, V. A.
Quantitative Characteristics of Distribution of Bdellovibrio Bacteriovorus in River Water, (In Russian),
W76-11551 9-21 5A

LAMBORN, K. P.
Improving the Statistical Reliability of Stream Heat Assimilation Prediction,
W76-02271 9-05 5B

LAMMI, J. O.
Utilization of ERTS-1 Data in Geological Evaluation, Regional Planning, Forest Management, and Water Management in North Carolina,
W76-08538 9-16 4A

LAMONDS, A. G.
Chemical Characteristics of the Lower Kissimmee River, Florida--with Emphasis on Nitrogen and Phosphorus,
W76-07603 9-15 5A

Proposed Cross-Florida Barge Canal: Water-Quality Aspects, with a Section on Waste-Assimilative Capacity,
W76-12283 9-23 5G

LAMOREAUX, P. E.
Hydrology of Limestone Terranes, Progress of Knowledge About Hydrology of Carbonate Terranes,
W76-12813 9-24 2F

Karst and Paleohydrology of Carbonate Rock Terranes in Semiarid and Arid Regions with a Comparison to Humid Karst of Alabama,
W76-08044 9-15 2F

LAMOREAUX, T. C.
An Automated Technique for the Sub-Microgram Determination of Selenium and Arsenic in Surface Waters by Atomic Absorption Spectroscopy,
W76-05736 9-12 5A

LAMOTHE-ARGUMEDO, R.
Discovery of Ligula Intestinalis (Goeze 1782) Gmelin, 1790 in Lermichthys Mutiradiatus (Meek) (Pisces: Goodeidae), (In Spanish),
W76-12274 9-23 5C

LAMPILA, M.
The Use of Waste Fibers as Absorption Material in Grass Silage,
W76-10863 9-20 5E

LAMY, J. E.
Anti-Heave Protective System,
W76-04264 9-09 8B

LANAN, G. A.
Beach Cusps Formed by Intersecting Waves,
W76-05163 9-11 2L

LANCE, J. C.
The Effect of Increasing the Organic Carbon Content of Sewate on Nitrogen, Carbon, and Bacteria Removal and Infiltration in Soil Columns,
W76-02741 9-06 5D

Fate of Nitrogen in Sewage Effluent Applied to Soil,
W76-01696 9-04 5B

Redox Potentials in Soil Columns Intermittently Flooded with Sewage Water,
W76-12145 9-22 5B

LANCE, J. C.

Stimulation of Denitrification in Soil Columns by Adding Organic Carbon to Wastewater,
W76-12920 9-24 5D

LANCELOT, C. J.
Detergent Phosphate Ban Yields Little Phosphorus Reduction, Part I,
W76-05637 9-12 5C

Detergent Phosphate Ban Yields Little Phosphorus Reduction, Part II,
W76-06345 9-13 5G

Detergent Phosphate Ban Yields Little Phosphorus Reduction, Part III,
W76-06346 9-13 5G

LANCON, J.
The Application of 'Biotic Indices' to the Study of Pollution in a River with Cyprinidae, (In French),
W76-11580 9-21 5A

LANCY, L. E.
Integrated Waste Water Treatment for Reusage After Cyanide Type Plating,
W76-02779 9-06 5D

Metal Recovery from Waste Treatment Sludges,
W76-10960 9-20 5D

Pilot Plant Optimization of phosphoric Acid Recovery Process,
W76-00676 9-02 5D

LAND, J.
Computations of the Temperature Response of Stratified Sill Fjords to Cooling-Water Discharges,
W76-08857 9-17 5B

LAND, J. E.
Nature and Stability of Complex Mercury Compounds in Surface and Ground Waters, Phase II,
W76-05838 9-12 5A

LAND, L. F.
The Shallow Aquifer--A Prime Freshwater Resource in Eastern Palm Beach County, Florida,
W76-12278 9-23 2F

LANDE, E.
Investigation of Trondheim Fjord: Orientation to Planning and Preliminary Results, (In Norwegian),
W76-07405 9-14 5A

LANDER, L.
Effects of a Sulphate Pulp Mill on the Benthic Macrofauna in a Firth of the Bothnian Sea,
W76-01947 9-04 5C

LANDGREBE, D. A.
A Study of the Utilization of ERTS-1 Data from the Wabash River Basin,
W76-12183 9-23 7B

LANDLESS, P. J.
Acclimation of Rainbow Trout to Sea Water,
W76-09125 9-17 2L

LANDNER, L.
Oligotrophication - A Self-Accelerating Process In Lakes Subjected to Excessive Supply of Acid Substances,
W76-11403 9-21 5C

LANDRETH, R. E.
Land Disposal of Wastes: Potential for Groundwater Pollution,
W76-10667 9-20 5E

Promising Technologies for Treatment of Hazardous Wastes,
W76-01219 9-03 5D

LANDRIGAN, R. B.
Removal of Chromium from Plating Rinse Water Using Activated Carbon,
W76-01867 9-04 5D

LANDRUM, W. R.
How to Perform a Through-Tubing Gravel Pack,
W76-10113 9-19 8G

LANDRY, A. M. JR.
Annual Cycle of Sportfishing Activity at a Warmwater Discharge into Galveston Bay, Texas,
W76-10541 9-20 5G

Numbers of Individuals and Injury Rates of Fishes Caught on Revolving Screens at the P. H. Robinson Generating Station,
W76-08653 9-16 8I

LANDSBERG, H. E.
Selected Cases of Convective Precipitation Caused by the Meteropolitan Area of Washington, D.C.,
W76-02422 9-05 2B

LANDSCHOOT, R. L.
Use of Yeast in the Treatment of Sauerkraut Waste,
W76-04733 9-10 5D

LANDSFORD, R. R.
A Socio-Economic Evaluation of Alternative Water Management Policies on the Pio Grande in New Mexico,
W76-06644 9-13 6B

LANDWEHR, J. M.
A Comparison of Several Water Quality Indexes,
W76-10926 9-20 5A

LANE, G. W.
Body Temperature Change of Bluegill Sunfish Subjected to Thermal Shock,
W76-00865 9-02 5C

LANE, J. W.
Optical Properties of Salt Ice,
W76-05395 9-11 2C

LANE, L. J.
Influence of Simplifications in Watershed Geometry in Simulation of Surface Runoff,
W76-11517 9-21 2A

Sediment Yield as Related to a Stochastic Model of Ephermeral Runoff,
W76-11512 9-21 2J

LANE, M.
Rounding Up Runoff: Reflections in Waste Handling Systems,
W76-10530 9-20 5D

LANE, R. C.
Pennsylvania Public Trust Doctrine: Its Use as a Restraint on Government,
W76-07361 9-14 6E

LANE, W. L.
Extraction of Information on Inorganic Wate Quality,
W76-01844 9-04 5

LANEY, R. L.
Maps Showing Ground-Water Conditions in th Lower Hassayampa Area, Maricopa County Arizona--1975,
W76-11068 9-20 7

LANEY, R. W.
Heat Influences in Estuarine Ecosystems,
W76-03489 9-07 5

LANG, A. R. G.
The Influence of Local Advection on Evap Transpiration from Irrigated Rice in a Sem Arid Region,
W76-00713 9-02 2

LANG, C.
Macrofauna of the Stony Bottom of La Geneva, (In French),
W76-02985 9-06 5

LANG, J.
The Green Bay Watershed Past/Present/Future,
W76-06569 9-13 5

LANG, J. L.
Clarifying Agents for Water,
W76-01727 9-04 5

LANG, T. E.
Stress Concentration in Sloping Snowpa from Geometric Imperfections,
W76-13061 9-24 2

LANGDON, P. E.
Upgrading Primary Treatment with Chemica and Water Treatment Sludge,
W76-06286 9-13 5

LANGE, K. W.
Recovery System for Oxygen From Was Water Oxygenation,
W76-01536 9-04 5

LANGE, W.
Competitive Exclusion Among Three Plan tonic Blue-Green Algal Species,
W76-03538 9-08

LANGELAND, A.
Long-Term Changes in the Plankton of La Tyrifjord, Norway,
W76-08042 9-15 2

LANGER, R. H. M.
An Analysis of a Nitrogen-Induced Depressi of Yield in Irrigated 'Kopara' Wheat,
W76-00152 9-01

Effects of Irrigation and Fertiliser on Yields of 'Arawa', 'Aotea', and 'Karan Wheats,
W76-00151 9-01

LANGFORD, K. J.
Change in Yield of Water Following a Bushf in a Forest of Eucalyptus Regnans,
W76-03449 9-07

Change in Yield of Water Following a Bushf in a Forest of Eucalyptus Regnans,
W76-08349 9-16

Overland Flow,
W76-04134 9-09

NGLEY, W. W.
Phase IV: Biology,
W76-09242 9-17 2L

NGMUIR, D.
The Solubility of Ferric Oxyhydroxides in Natural Waters,
W76-00011 9-01 2K

NGTON, D.
The Use of Adenosine Triphosphate Measurements in the Control of the Activated Sludge Process by the Solids Retention Time Method,
W76-05065 9-11 5D

NGVAD, S.
Extension of the Torshavn Breakwaters,
W76-08071 9-15 8A

NGWAY, C. C. JR.
The Chemistry of 700 Years of Precipitation at Dye 3, Greenland,
W76-12181 9-23 5A

NKFORD, C. B.
Development of an Airborne Laser Bathymeter,
W76-11755 9-22 7B

NNERGREN, C.
Phosphate, Silicate, Nitrate, and Ammonia in Lindaspollene, A Norwegian Land-Locked Fjord,
W76-07098 9-14 5B

NOWY, T.
Extended Waste Water Purification in a Group Sewage Plant as Protective Measure for a Leak (Weitgehende Abwasserreinigung in einem Gruppenklaerwerk als Seenschutzmassnahme),
W76-01737 9-04 5D

NSFORD, R. R.
Cost of Producing Crops in the Irrigated Southwest, Part II: New Mexico,
W76-09475 9-18 3F

NZ, R. W.
The Effect of a Fossil Fuel Power Plant's Cooling Water System on the Water Quality of Green Bay, Wisconsin,
W76-11319 9-21 5B

NZA, G. R.
Biological Effects of Simulated Discharge Plume Entrainment at Indianpoint Nuclear Power Station, Hudson River Estuary, USA,
W76-09497 9-18 5C

APERRIERE, J. D.
Evaluation of the Trophic Types of Several Alaskan Lakes by Assessment of the Benthic Fauna,
W76-05604 9-12 5C

Nutrients and Algae in Some Central Iowa Streams,
W76-01152 9-03 5C

APIDOT, M.
Potential of Radiation Sterilization in Solid Waste Treatment, A Status Report,
W76-09555 9-18 5D

Recent Advances in the Treatment of Solid Wastes,
W76-09553 9-18 5D

APIES, E.
The Effect of Some Carbon Substrates on Morphology of Flocs and Quantitative Relations Among Microorganisms in Activated Sludge,
W76-06302 9-13 5D

LAPIN, V. I.
Some Characteristics of Fat Metabolism in Two Forms of Char Salvelinus Alpinus (L.) From Lake Azabach (Kamchatka), (In Russian),
W76-08310 9-16 2H

LAPPO, R. L.
Living Filter Perks up Regional System,
W76-12607 9-23 5D

LAPTEFF, A. JR.
New Analytical Techniques for the Study of Water Disinfection,
W76-00106 9-01 5F

LARCROIX, W. F. JR.
Biomass of Zooplankton in the Newport River Estuary and the Influence of Postlarval Fishes,
W76-06153 9-13 2L

LAREW, H. G.
Feasibility of Using Sewage Sludge in Highway Embankment Construction,
W76-10624 9-20 5E

LARGE, D. B.
Public Law 92-500: Technology Assessment, Technical Volume.
W76-11780 9-22 5G

LARICHEVA, S. G.
Some New Aspects of Plant Indication of Hydrogeological Conditions in Deserts, (In Russian),
W76-02003 9-05 2I

LARK, J. G. I.
Seasonal Mortality of Rainbow Trout (Salmo Gairdneri) Planted in Smalll Eutrophic Lakes of Central Canada,
W76-11179 9-21 5C

LARKIN, E. P.
Persistence of Virus on Sewage-Irrigated Vegetables,
W76-12634 9-23 5B

LARKIN, P. A.
Changes in Some Hematological Characteristics of Coho Salmon (Oncorhynchus Kisutch) in Response to Acute Exposure to Dehydroabietic Acid (DHAA) at Different Exercise Levels,
W76-10333 9-19 5C

LAROSA, J.
Relative Importance of Food and Water in Long-Term Zinc-65 Accumulation of Marine Biota,
W76-03780 9-08 5C

LAROSE, R. H.
High-Speed Liquid Chromatographic Cleanup of Environmental Samples Prior to the Gas Chromatographic Determination of Lindane,
W76-07701 9-15 5A

LAROUSSI, C.
Experimental Investigation of the Diffusivity Coefficient,
W76-04305 9-09 2G

Physical Interpretation of the Diffusion Equation Parameters According to Markov's Stochastic Processes Theory,
W76-01851 9-04 2G

LARRABEE, R. M.
An In-Situ Investigation of Oil Barrier Shape and Drag Coefficients,
W76-12378 9-23 5G

LARROUY, G.
A Hydrodynamic Approach to the Microdistribution of Benthic Invertebrates in Running Water, (In French),
W76-07938 9-15 2I

LARSEN, D. P.
A Six-Year Water, Phosphorus, and Nitrogen Budget for Shagawa Lake, Minnesota,
W76-08674 9-16 5C

LARSEN, J.
Computations of Harbor Oscillations by Ray Methods,
W76-10421 9-19 8B

LARSEN, L. H.
Measurement of Internal Waves of Tidal Frequency Near a Continental Boundary,
W76-02710 9-06 2L

LARSEN, S. P.
Finite-Difference Model for Aquifer Simulation in Two Dimensions with Results of Numerical Experiments,
W76-13085 9-24 2F

LARSON, A. G.
Hydrologic Data Summary: Clearwater River Basin, Water Year 1973-1974,
W76-04019 9-09 4C

LARSON, A. M. JR.
Streamlining Head-Loss Calculations,
W76-03812 9-08 8B

LARSON, C. L.
Modeling Infiltration and Redistribution of Soil Water During Intermittent Applications,
W76-01085 9-03 2G

LARSON, D. L.
Conclusion,
W76-07842 9-15 6E

Introduction,
W76-07828 9-15 6E

LARSON, F. C.
A Study of Continuous Water Quality Monitoring Systems,
W76-04006 9-09 5A

LARSON, J.
Economic Effects of Land Subsidence Due to Excessive Groundwater Withdrawal in the Texas Gulf Coast Area,
W76-03099 9-07 4B

LARSON, J. D.
Water Resources Data Collected in the Devils Hole Area, Nevada, 1974-75,
W76-02958 9-06 4B

LARSON, O. R.
Studies on Helminths of North Dakota: V. Life History of Phyllodistomum Nocomis Fischthal, 1942 (Trematoda:Gorgoderidae),
W76-12912 9-24 2I

LARSON, R. W.
The Study of Fresh-Water Lake Ice Using Multiplexed Imaging Radar,
W76-08138 9-16 2C

Water Resources of the Huron River Basin, Southeastern Michigan,
W76-05429 9-11 7C

LARSON, S. P.
Digital Models of a Glacial Outwash Aquifer in the Pearl-Sallie Lakes Area, West-Central Minnesota,
W76-13082 9-24 2F

LARSON, T. E.
Complexes Affecting the Solubility of Calcium Carbonate in Water - Phase II,
W76-05180 9-11 8G

LARSON, W. E.
Consequences of Waste Disposal on Land,
W76-00427 9-01 5E

Sampling and Calculation Methods for Determining Quantities of Nitrogen and Phosphorus in Watershed Runoff,
W76-12372 9-23 5A

Sampling Procedures for Nitrogen and Phosphorus in Runoff,
W76-04681 9-10 5A

LARSSON, S. A.
Biochemical and Chemical Oxygen Demands of Carbohydrates with Different Degrees of Polymerization,
W76-05303 9-11 5D

LASATER, J. A.
Water Quality Parameters of the Lagoonal Complex Surrounding KSC (Kennedy Space Center),
W76-01898 9-04 2L

LASENBY, D. C.
Development of Oxygen Deficits in 14 Southern Ontario Lakes,
W76-05679 9-12 5C

Development of Oxygen Deficits in 14 Southern Ontario Lakes,
W76-06715 9-13 5C

LASER, H. P.
A Hydrophobic Membrane Probe for Total Pressure and Partial Pressure Measurements in the Soil Atmosphere,
W76-01480 9-03 2G

LASETER, J. L.
Application of a Computer-Based Chromatograph for Automated Water Pollution Analyses,
W76-10038 9-19 5A

New Orleans Drinking Water Sources Tested by Gas Chromatography Mass Spectrometry, Occurrence and Origin of Aromatics and Halogenated Aliphatic Hydrocarbons,
W76-00603 9-02 5A

LASEUR, W. V.
Water Yield Model Using SCS Curve Numbers,
W76-12522 9-23 2A

LASH, D.
Characteristics of Lakes, Ponds, and Reservoirs of New Hampshire, with a Bibliography,
W76-04978 9-10 2H

LASH, L. D.
Primary-Waste-Treatment Methods,
W76-03226 9-07 5D

Water Reuse at Ponderosa Paper Products, Inc., Flagstaff, Arizona,
W76-02474 9-05 5D

LASHKYEVICH, R. I.
Effect of Water Regime on Productivity of Cultivated Plants, (In Belorussian),
W76-10189 9-19 3F

LASKA, L. L.
Water Pollution Control in Alaska: The Alaska Environmental Conservation Act of 1971,
W76-04340 9-09 5G

LASKA, R. M.
Managing the Environment,
W76-01597 9-04 6G

LASKER, R.
Two Blooms of Gymnodinium Splendens (Lebour). A Large Naked Dinoflagellate,
W76-08937 9-17 5C

LASKINA, V. P.
The Significance of Isomery in Hygienic Standardization of Industrial Contaminations of Water Bodies, (In Russian),
W76-08864 9-17 5A

LASKOWSKI, S. M.
Mathematical Transport Model for Salt Distribution from a Saltwater Natural-Draft Cooling Tower,
W76-04831 9-10 5B

LASTIHENOS, J.
Brooklyn Plant Meets Major Challenges,
W76-05768 9-12 5D

LASZLO, D.
Long Range Planning of Water Resources: A Multi Objective Approach,
W76-05760 9-12 6A

LATHAM, D. J.
Influence of NaCl, Ca2+, and Mg2+ on the Growth of a Marine Bdellovibrio sp.,
W76-01926 9-04 5C

LATHAM, J.
Ice Particle Multiplication in Cumulus Clouds,
W76-06678 9-13 2B

Multiplication of Ice Particles in Slightly Supercooled Cumulus,
W76-00001 9-01 2B

LATKINA, L. L.
Hygienic Substantiation of the Maximum Permissible Concentration of Hydrogen Peroxide in Surface Waters, (In Russian),
W76-12315 9-23 5A

LATYSHENKOV, A. M.
Design Factors for River Ice Booms Analyzed,
W76-11772 9-22 2C

LAU, L. S.
Water Problems and Research Needs for Hawaii: 1975,
W76-07584 9-15 6B

LAU, S. L.
Land Disposal of Wastewater in Hawaii,
W76-01557 9-04 5E

LAUBE, H. R.
Studies on the Decomposition of a Duckweed (Lamnaceae) Community,
W76-01198 9-03 5C

LAUCH, R. P.
Recommended Design of Sample Intake Systems for Automatic Instrumentation,
W76-12871 9-24 5A

LAUDERDALE, R. A.
Tertiary Treatment of Wastewater Using O idation Ponds,
W76-03138 9-07

LAUENROTH, W. K.
Evapotranspiration from a Shortgrass Prai Subjected to Water and Nitrogen Treatments
W76-11849 9-22

LAUER, G. J.
Biological Effects of Simulated Discha Plume Entrainment at Indianpoint Nucl Power Station, Hudson River Estuary, USA,
W76-09497 9-18

The Effects of Power Plant Condenser Cool Water Entrainment on the Amphipod, Ga marus SP.,
W76-12768 9-24

Entrainment Studies on Hudson River Org isms,
W76-08633 9-16

LAUGHLIN, C. P.
Hydrologic Records for Lake County, Flori 1973-74,
W76-11414 9-21

LAUMOND, F.
Incineration at Sea of Liquid Chlorina Residues (In French),
W76-06746 9-13

The use of a Pelagic Trophodynamic Chain Studying the Transfer of Metallic Pollutan (In French),
W76-00577 9-02

Use of A Trophodynamic Chain of the Bent Type for the Study of Transfers of Meta Pollutants, (In French),
W76-10944 9-20

LAUREN, O. B.
Techniques for Industrial Odor Control,
W76-03330 9-07

LAURENSON, E. M.
Streamflow in Catchment Modelling,
W76-04135 9-09

LAURIA, D. T.
Models for Municipal and Industrial Water D mand Forecasting in North Carolina,
W76-04390 9-09

Water Demand Forecasting--Some Concep and Techniques,
W76-03442 9-07

LAUTRICH, R.
Using Intermediate Storm-Water Retenti Tanks (RUEB) Instead of Rain Outlets (RU at Subsequent Enlargement of Rate of Flow of Mixing Rate (Die Zwischenschaltung V Regenueber-Laufbecken (RUEB) Anstelle V Regenueberlaeufen (RUE) Bei Nachtraeglich Vergroesserung Der Wassermenge Oder D Mischverhaeltnisses),
W76-01280 9-03

LAUZANNE, L.
The Selection of Prey in 3 Malacophago Fishes of Lake Chad, (In French),
W76-08178 9-16

LAVAL, C. C. JR.
Sewage Solid Separating Device,
W76-00771 9-02

ELLE, L. W.
ssible Bottom Current Response to Surface inds in the Hudson Shelf Channel,
76-02706 9-06 2L

ENDER, S. T.
caling and Sizing Criteria for Thermal-ydraulic Models,
76-10437 9-19 5B

ILLE, H.
roduction of a Semi-Voltine Chironomid, hironomus Commutatus Str., In Lake Port-ielh (Central Pyrenees), (In French),
76-07939 9-15 2H

W, S. M.
rosion Evaluation Study,
76-01829 9-04 2J

WES, B. C.
A Peroxygen System for Destroying Cyanide in Zinc and Cadmium Electroplating Rinse Waters,
W76-08470 9-16 5D

WFER, R.
An Illinois Feedlot Runoff Control Project,
W76-07169 9-14 5D

WING, R. J.
Mobile Bay Model Study: Effects of Proposed Theodore Ship Channel and Disposal Areas on Tides, Currents, Salinities, and Dye Dispersion,
W76-07467 9-15 8B

WLER, J. P.
Hudson River Striped Bass Life Cycle Model,
W76-08634 9-16 5C

WLESS, E. W.
Guidelines for the Disposal of Small Quantities of Unused Pesticides,
W76-01875 9-04 5D

Production, Distribution, Use and Environmental Impact Potential of Selected Pesticides,
W76-02316 9-05 5C

AWRANCE, C. H.
Major Junction Structure Verified by Modeling,
W76-12840 9-24 8B

AWRENCE, A. J.
A Reconsideration of the Fiering Two-Station Model,
W76-08519 9-16 4A

AWRENCE, A. W.
Least Cost Design of Activated Sludge Systems,
W76-09638 9-18 5D

AWRENCE, C. H.
Estimating Indirect Cost of Urban Water Use,
W76-00630 9-02 3D

Estimating Indirect Cost of Urban Water Use,
W76-06615 9-13 6C

Sand Filter and Waste Stabilization Pond Test Shows Possibility for Treatment of Individual Wastewater Disposal,
W76-01738 9-04 5D

AWRENCE, C. R.
Procedures and Equipment for Pumping and Freeflowing Tests of Water Wells,
W76-00406 9-01 8C

LAWRENCE, K. A.
Production, Distribution, Use and Environmental Impact Potential of Selected Pesticides,
W76-02316 9-05 5C

LAWRENCE, R. W.
Study of Crosslinked Polymers for Desalination,
W76-03147 9-07 3A

LAWS, E. A.
The Effect of urban Land Use on Nutrient and Suspended-Solids Export from North Florida Watersheds,
W76-10331 9-19 4C

LAWSON, D. E.
The Placer River Silt--An Intertidal Deposit Caused by the 1964 Alaska Earthquake,
W76-08560 9-16 2J

LAWSON, J. D.
Transport of Materials in Streams,
W76-04136 9-09 2J

LAWTON, G. W.
Nitrates in Wisconsin Ground Water,
W76-03803 9-08 5B

LAYCOCK, A. H.
Water Problems in Alberta Oilsands Development,
W76-06953 9-14 5G

LAZAREV, M. I.
Scientific-Technological Progress and the Search for Legal Regulation Over Possible Uses of the Ocean Floor,
W76-12032 9-22 6E

LAZAREVA, L. P.
Phytoplankton of Some Ponds and Lakes of Dagestan ASSR, (In Russian),
W76-07311 9-14 5C

Zooplankton of some Inland Waters of the Dagestan Assr., (in Russian),
W76-05444 9-11 2H

LAZAREVA, M. F.
Removal of Hydrogen Sulfide from Drinking and Industrial Water, (In Russian),
W76-11541 9-21 5F

LAZAREVA, V. V.
Characteristics of the Accumulation of Free Amino Acids by Some Nonsporulating Bacteria from Typical Irrigated Sierozem, (In Russian),
W76-10188 9-19 5B

LAZARO, T. R.
Nonparametric Statistical Analysis of Annual Peak Flow Data from a Recently Urbanized Watershed,
W76-08522 9-16 4C

LE COMPTE, A. R. JR.
Aerobic Lagoon Waste Treatment and Method,
W76-12499 9-23 5D

LE FEVER, R.
Depositional Environment Interpretation from Settling-Velocity (PSI) Distributions,
W76-01265 9-03 2J

LE HOUEROU, H.
The Nature and Causes of Desertization,
W76-09069 9-17 4C

LEACH, J. H.
Seston Composition in the Point Pelee Area of Lake Erie,
W76-03787 9-08 5C

LEACH, J. M.
Acute Toxicity to Juvenile Rainbow Trout (Salmo Gairdneri) of Naturally Occurring Insect Juvenile Hormone Analogues,
W76-09282 9-17 5C

Isolation and Identification of Constituents Toxic to Juvenile Rainbow Trout (Salmo Gairdneri) in Caustic Extraction Effluents from Kraft Pulpmill Bleach Plants,
W76-02332 9-05 5A

Toxic Constituents in Pulp Mill Effluents,
W76-08458 9-16 5A

LEACH, L. E.
Phosphorus Model of Muskegon Wastewater System,
W76-07011 9-14 5B

LEAF, C. F.
Generalized Criteria for Verification of Water Developed Through Weather Modification,
W76-01519 9-04 3B

LEAFE, M. K.
The Role of High Rate Bio-Filters in the Leather Industry,
W76-08180 9-16 5D

LEAL-DIAZ, J.
Irrigation Systems by Trickling,
W76-03505 9-08 3F

LEAMAN, K. D.
Vertical Energy Propagation of Inertial Waves: A Vector Spectral Analysis of Velocity Profiles,
W76-02711 9-06 2L

LEAN, D. R. S.
A Test of the Hypothesis that Abiotic Phosphate Complexing Influences Phosphorus Kinetics in Epilimnetic Lake Water,
W76-07429 9-14 5C

LEANEY, G. M.
Pumping Applications...Sewage, Sludge, and Slurry,
W76-00344 9-01 8C

LEAR, D. W.
Effects of Ocean Disposal Activities on Mid-Continental Shelf Environment Off Delaware and Maryland,
W76-03175 9-07 5C

LEARNER, M. A.
A Study of the Benthic Macro-Invertebrates of a Shallow Eutrophic Reservoir in South Wales with Emphasis on the Chironomidae (Diptera); Their Life Histories and Production,
W76-06747 9-13 5C

LEARY, R. D.
Lake Michigan Gets Help,
W76-08246 9-16 5D

LEATHAM, W.
Evaluation of Sludge Dumping Off Delaware Bay,
W76-11792 9-22 5B

LEBIEDOWSKI, M.
Some Problems of Textile Mill-Generated Wastewater Treatment in the Lodz Urban Agglomeration (Niektore Problemy Oczyszczania Sciekow Przemyslu Wlokienniczego na Terenie Lodzkiej Aglomeracji Miejskiej),
W76-01673 9-04 5D

LEBLANG, R. S.
South Dakota Weather Modification Program, Research Cooperative Studies Under Project Skywater,
W76-10819 9-20 3B

LEBO, W. R.
Method and Apparatus for Treating Liquid Sewage and Waste,
W76-11220 9-21 5D

LECH, JOHN, J.
Glucuronide Formation in Rainbow Trout: Effect of Salicylamide on the Acute Toxicity, Conjugation and Excretion of 3-Trifluoromethyl-4-Nitrophenol,
W76-06031 9-12 5C

LECHEVALIER, H. A.
Actinomycetes of Sewage-Treatment Plants,
W76-02760 9-06 5D

Actinomycetes of Sewage-Treatment Plants,
W76-11927 9-22 5D

LECHNER, J. F.
Potentiometric Determination of Low Levels of Simple and Total Cyanides,
W76-10030 9-19 5A

LECLERC, A.
Application of Factorial Analysis of Principal Components to the Control of Pollution of Surface Waters,
W76-05632 9-12 5B

LECLERC, H.
The Microbiological Pollution of North Sea and English Channel Shore, (In French),
W76-09657 9-18 5C

LEDBETTER, J. O.
Can We Afford Zero Pollution Risk,
W76-03249 9-07 5G

LEDERMAN, T. C.
Evaluating a Mathematical Model for Predicting Lake Eutrophication,
W76-02370 9-05 5C

LEDONNE, A. N.
Microwave Sewage System With Distillation Means,
W76-00800 9-02 5D

LEDOVA, L. A.
Quantitative Characteristics of Distribution of Bdellovibrio Bacteriovorus in River Water, (In Russian),
W76-11551 9-21 5A

LEDUC, G.
The Toxicity of Various Mining Flotation Reagents to Rainbow Trout (Salmo Gairdneri),
W76-08448 9-16 5C

LEE, C. L.
A Laboratory Investigation of the Mechanics and Hydraulics of River Ice Jams,
W76-10714 9-20 2C

LEE, C. R.
Overland Flow Treatment of Wastewater - A Feasible Approach,
W76-11235 9-21 5D

LEE, C. Y.
Dry Caustic Peeling of Beets and Carrots Reduces Pollution,
W76-08504 9-16 5D

Waste Reduction in Table Beet Processing,
W76-04735 9-10 3E

LEE, CHOON-KOO
Studies on the Effects of Copper on the Lactate Dehydrogenase and Esterase Isozymes in Various Tissues of Carassius Carassius,
W76-05595 9-12 5C

LEE, D. D.
Effect of Surfactants on the Surface Absorption of Oxygen into Water,
W76-05458 9-11 5C

Oxygen Transfer in Fermentation,
W76-03321 9-07 5A

LEE, D. R.
Efficiency of Pollution Taxation and Market Structure,
W76-03204 9-07 5G

A Screening Bioassay Using Daphnia Pulex for Refinery Wastes Discharged into Freshwater,
W76-09653 9-18 5A

LEE, E. G-H.
Effect of Temperature and Sludge Loading on BOD5 Removal and Sludge Settleability in Activated Sludge Systems Treating Bleached Kraft Effluents,
W76-05105 9-11 5D

Ultimate Disposal of Biological Sludges -- A Novel Concept,
W76-12481 9-23 5E

LEE, G. F.
Analysis of Chromium in Natural Waters by Gas Chromatography,
W76-04761 9-10 5A

Cooling Towers and Water Quality,
W76-00316 9-01 5B

Nitrogen Availability in Urban Runoff,
W76-12596 9-23 5B

Phosphate, Algae, and Taconite Tailings in the Western Arm of Lake Superior,
W76-11441 9-21 5C

Phosphorus Availability in Particulate Materials Transported by Urban Runoff,
W76-08804 9-17 5B

Phosphorus Sources for the Lower Madison Lakes,
W76-06718 9-13 5B

Potential Environmental Problems of Dredging and Dredged Material Disposal: Dredged Material Disposal Criteria,
W76-02449 9-05 5C

The Role of Amino Acids in the Nitrogen Cycle of Lake Mendota,
W76-01654 9-04 5C

Studies on the Ca, Mg, and Sr Content of Freshwater Clamshells,
W76-06119 9-12 2H

LEE, H.
Closed-Loop Ozone Generating and Contacting System,
W76-00593 9-02 5F

LEE, J. A.
Water-Distribution-System Corrosion Control,
W76-06276 9-13 8G

LEE, J. H.
Stability and Mixing of a Vertical Round Buoyant Jet in Shallow Water,
W76-08144 9-16 8B

LEE, J. J.
Growth of Salt Marsh Microcosms Subjecte
to Thermal Stress,
W76-02016 9-05 5

LEE, K. J.
Effects of Silicone Antitranspirant on Wood
Plants,
W76-07260 9-14 2

LEE, K. K.
Flood Damage Reduction Potential of Rive
Forecast,
W76-06435 9-13 6

Flood Damage Reduction Potential of Rive
Forecast Services in the Connecticut Rive
Basin,
W76-12186 9-23 4

Longshore Currents and Sediment Transport
West Shore of Lake Michigan,
W76-04958 9-10 2

Moody Diagram for Direct Pipe Diameter Ca
culation,
W76-01793 9-04 8

LEE, K. L.
Properties of Soil in the San Fernando Hydrau
lic Fill Dams,
W76-07219 9-14 8

The Slides in the San Fernando Dams Durin
the Earthquake of February 9, 1971,
W76-07220 9-14 8

LEE, K. W.
Rainfall-Runoff Relation for Redwood Creek
Above Orick, California,
W76-03903 9-08 2

LEE, L. WU.
Water Pollution Control Act of 1972, Economi
Impacts, Non-Ferrous Metals Industry,
W76-10565 9-20 5

LEE, M. T.
The Off-Site Sediment Damage Function i
Selected Illinois Watersheds,
W76-03126 9-07 4

A Procedure for Estimating Off-Site Sedimen
Damage Costs and an Empirical Test,
W76-09632 9-18 4

Soil Loss from Illinois Farms - Economic Anal
ysis of Productivity Loss and Sedimentation
Damage,
W76-08533 9-16 4

LEE, P. C. Y.
Finite Element Mesh Gradation for Surface
Waves,
W76-05919 9-12 8

LEE, R. D.
The Development and Application of the 1974
Drinking Water Standards,
W76-03424 9-07 5

LEE, R. F.
Copepod Slick in the Northwest Pacific Ocean,
W76-08959 9-17 5

Fate of Petroleum Hydrocarbons in Marine
Zooplankton,
W76-00144 9-01 5

Fates of Petroleum in the Sea: Biological
Aspects,
W76-11017 9-20 5

, R. N.
easured Chromium Distributions Resulting
om Cooling-Tower Drift,
76-04828 9-10 5B

, S.
hlorination in Dilute Aqueous Systems; 2,4,6-
richlorophenol,
76-06306 9-13 5B

, S. K.
lectrochemical Contaminant Removal from
queous Media,
76-05024 9-11 5D

lectrochemical Removal of Fluoride Ion from
queous Media,
76-05023 9-11 5D

, S. S.
pplication of Remote Sensing for Prediction
nd Detection of Thermal Pollution,
76-02393 9-05 5A

easibility of Remote Sensing for Detecting
hermal Pollution--Part I: Feasibility Study;
art II: Implementation plan,
76-01838 9-04 5A

E, T. R.
ecision to Control Eutrophication,
76-01352 9-03 5G

E, T. T.
Numerical Prediction of Harbor Responses,
W76-10419 9-19 8B

Scale Effects on Physical/Mathematical Model-
ng,
W76-10435 9-19 8B

E, W. L.
An Analysis of the Dynamics of DDT and Its
Derivatives, DDD and DDE, in Marine Sedi-
ments
W76-10050 9-19 5C

EDOW, M. I.
Selenium and Heavy Metals in Black Marlin,
W76-11716 9-22 5C

EDY, D. L.
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State-of-the-Art Report,
W76-10003 9-19 4C

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Annotated Bibliography,
W76-10004 9-19 4C

EEKLEY, R. M.
Kraft Effluent Color Nature Before and After
Lime Treatment,
W76-04081 9-09 5D

EENDERTSE, J. J.
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Estuaries,
W76-09977 9-18 2L

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Coastal Seas: Volume III, the Interim Program,
W76-07016 9-14 2L

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Mixed Estuaries and Coastal Seas: Vol. VII, A
Hindcast,
W76-08317 9-16 5B

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Mixed Estuaries and Coastal Seas: Volume
VIII, an Engineering Assessment,
W76-13093 9-24 2L

LEES, S. J.
Simulation of the Rainfall-Runoff Process
Using a Hysteretic Infiltration-Redistribution
Model,
W76-01421 9-03 2A

Simulation of the Rainfall-Runoff Process
Using a Hysteretic Infiltration-Redistribution
Model,
W76-03451 9-07 2G

The Use of a Dependent Domain Model of
Hysteresis in Numerical Soil Water Studies,
W76-05158 9-11 2G

LEFEBVRE, D.
Artificial Islands: Possibilities and Legal
Problems,
W76-00965 9-02 6E

LEFEBVRE, E. E.
Biodegradability and Toxicity Studies of Photo-
graphic Processing Wastes at Offutt AFB,
Nebraska,
W76-10053 9-19 5C

LEFFLER, C. W.
Effects of Ingested Mirex and DDT on Juvenile
Callinectes Sapidus Rathbun,
W76-00333 9-01 5C

LEFLER, E.
Enteric Virus Behavior in Sand Dunes,
W76-01755 9-04 5D

LEFOR, M. W.
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Directed Toward Emerging Policy Alternatives,
W76-04389 9-09 6B

LEGAN, R. W.
Ozone/UV Process Effective Wastewater
Treatment,
W76-04033 9-09 5D

System for Total Direct Recycle of Secondary
Municipal Wastewater, Vol I -- Design Con-
cepts,
W76-10257 9-19 5D

LEGENDRE, G. R.
Removal of Dissolved Molybdenum from
Wastewaters by Precipitates of Ferric Iron,
W76-01106 9-03 5D

LEGERON, J. P.
Development of a Measurement Method for the
Total Activity Rate of Activated Sludge
(Contribution a La Mise Au Point D'une
Methode De Mesure Du Taux D'Activite
Totale Des Boues Activees),
W76-09695 9-18 5D

LEGGETT, J. E.
Diffusion and Mass Flow of Nitrate-Nitrogen
to Plant Roots,
W76-10182 9-19 2G

LEGGETT, W. C.
Yellow Perch (Perca Flavescens) Biomass
Responses to Different Levels of Phytoplank-
ton and Benthic Biomass in Lake
Memphremagog, Quebec-Vermont,
W76-03655 9-08 5C

LEGRAND, H. E.
Groundwater Supplies of the Coastal Region,
W76-11618 9-21 5F

Hydrology of Limestone Terranes, Progress of
Knowledge About Hydrology of Carbonate
Terranes,
W76-12813 9-24 2F

Karst and Paleohydrology of Carbonate Rock
Terranes in Semiarid and Arid Regions with a
Comparison to Humid Karst of Alabama,
W76-08044 9-15 2F

LEGRAS, B. L.
Filter Especially Intended for Filtering Natural
Water for the Irrigation of Cultivated Fields,
W76-12400 9-23 3F

LEHINANT, A.
Water Purification Process,
W76-07748 9-15 5D

LEHMAN, G. S.
A Bacterial Water Quality Investigation of
Canyon Lake,
W76-02232 9-05 5B

LEHMAN, M. E.
Total Metabolism of Thermally Affected
Coastal Systems on the West Coast of Florida,
W76-02021 9-05 5C

LEHMAN, O. R.
Effect of Cattle Feedyard Runoff on Soil Infil-
tration Rates,
W76-10538 9-20 5B

LEHMANN, J. W.
Water Purification Process,
W76-07748 9-15 5D

LEHMKUHL, D. M.
Thermal Regime Alteration and Vital Environ-
mental Physiological Signals in Aquatic Organ-
isms,
W76-03478 9-07 5C

LEHMUSLUOTO, P. O.
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Areas Measured as Phytoplankton Primary
Production,
W76-03537 9-08 5C

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Southern Finland,
W76-03540 9-08 5C

LEHN, H.
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tion-Model Studies And Operating Experiences
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Modelluntersuchungen Und Betriebserfahrun-
gen),
W76-01547 9-04 5F

LEHNER, C. E.
Resilience of a Rocky Intertidal Fish Communi-
ty in a Physically Unstable Environment,
W76-09126 9-17 5C

LEHR, J. H.
Ground Water Flow No Longer a Mystery,
W76-08114 9-16 2F

Objectives of Well-Drilling Regulations,
W76-08917 9-17 5G

LEHRER, G. M.
The Effect of Lead on Mouse Brain Develop-
ment,
W76-09038 9-17 5C

LEIBUNDGUT, C.
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Contribution to Methodology and Practical Ap-
plication, (In German),
W76-04590 9-10 5A

LEICH, H. H.
The Sewerless Society,
W76-05439 9-11 5D

LEIDNER, H. A.
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W76-09204 9-17 5F

LEIGH, T. F.
Planting Pattern, Plant Population, Irrigation, and Insect Interactions in Cotton.
W76-09998 9-18 3F

LEIGHTELL, B.
Application of Reverse Osmosis in Water Conservation and Treatment in the Motor Industry,
W76-03992 9-08 5D

LEIMKUHLER, W.
Two-Dimensional Finite Element Dispersion Model,
W76-10453 9-19 5B

LEINERTE, M. P.
Sr90 in Water, Bottom, and Water Organisms in Latvian Lakes of Various Types,
W76-06867 9-14 5B

Study of Sr90/Sr Ratio in a Latvian Seaside Lake,
W76-06869 9-14 5C

Study of the Strontium 90/Strontium Isotope Balance in a Latvian Lake, (In Russian),
W76-06733 9-13 5A

LEISER, C. P.
System for Regulation of Combined Sewage Flows,
W76-01057 9-03 5D

LEITH, R. M.
Streamflow Regionalization in British Columbia, No 1, Regression of Mean Annual Floods on Physiographic Parameters,
W76-04180 9-09 2E

LEITZ, F. B.
High Temperature Electrodialysis - Phase V,
W76-03148 9-07 3A

LEITZELL, T.
Commentary on the North-South Split and the Law of the Sea Debate,
W76-07338 9-14 6E

LEKANDER, D. E.
Pollution Free Mills: Facts and Visions,
W76-02303 9-05 5D

LELAND, L. A.
Evaluation and Adaptation of Selected Computer Programs to Water Resource Problems in Massachusetts,
W76-10129 9-19 7C

LEMARQUAND, D.
International River Basin Cooperation: Some Factors Influencing Agreement,
W76-05758 9-12 6E

LEMAY, Y.
Suspended Solids Removal from Woodroom Effluent,
W76-09289 9-17 5D

LEMBI, C. A.
Selective Toxicity of Detergents and Herbicides to Phytoplankton,
W76-05181 9-11 5C

LEMBKE, W. D.
Agricultural Engineering Water Resources Information Retrieval of Published Literature,
W76-11691 9-22 10D

Planning Irrigation and Drainage Systems Using Retention and Extraction Limits,
W76-08553 9-16 3F

LEMEZIS, S.
Final Report--Determining Feasibility of Alternative Approaches of Obtaining Solid-Dry Brine Effluent from Desalination Plants at Inland Locations,
W76-03152 9-07 3A

LEMIEUX, P. F.
Design of a Stormwater Sewer by Nonlinear Programming--1,
W76-10034 9-19 5D

LEMIRE, R. A.
Rookery Bay Land Use Studies, Environmental Planning Strategies for the Development of a Mangrove Shoreline, Study No. 10, Growth and Land Use, Study No. 11, Economic Implications of Land Development Alternatives, Study No. 12, A Simulation Modeling Approach to the Study of Development Alternatives,
W76-05009 9-11 5G

LEMKE, A. A.
Apparatus for Flushing Sewers,
W76-08262 9-16 5D

LEMKE, A. E.
Comparative Toxicity of Polyelectrolytes to Selected Aquatic Animals,
W76-05740 9-12 5C

LEMKE, H. S.
Viruses and Ionizing Radiation in Respect to Waste-Water Treatment,
W76-09520 9-18 5D

LEMMA, W-A.
Methodology for the Selection and Timing of Water Resources Projects to Promote National Economic Development,
W76-08091 9-15 6B

LEMOALLE, J.
A Report on Iron Deposits in Lake Chad (1970-1973), (In French),
W76-07304 9-14 5B

LEMON, D.
Dispersion of Dyed Sea-Water Discharged from Moving Vessels in Coastal Waters,
W76-11086 9-20 5B

LENANTON, R. C. J.
Wilson Inlet: A Seasonally Closed Western Australian South Coast Estuary,
W76-09390 9-17 2L

LENARD, J. F.
Stop Leachate Problems,
W76-03525 9-08 5B

LENHARD, R. W.
Comparison Study of Models used to Prescribe Hydrometeor Water Content Values, Part I: Preliminary Results,
W76-13172 9-24 2B

LENHART, C. F.
Improved Liquid-Solids Separation by an Aluminum Compound in Activated Sludge Treatment,
W76-12867 9-24 5D

LENNOX, W. C.
Intervention Analysis in Water Resources,
W76-03165 9-07 2

Numerical Simulation of Waste Movement
Steady Groundwater Flow Systems,
W76-09564 9-18 5

LENSCHOW, L. V.
Economic Evaluation of Liquid Manu
Disposal Systems for Dairy Cattle,
W76-12357 9-23 5

LENTZ, B. R.
Structure of Liquid Water. III. Thermodynam
Properties of Liquid Deuterium Oxide,
W76-02505 9-06 1

LEON,
Observations on the Effects of Crude Oil Poll
tion on the Sandy-Beach Snail, Bull
(Gastropoda:Prosobranchiata),
W76-11459 9-21 5

LEONARD, A. R.
Ground Water in Selected Areas in th
Klamath Basin, Oregon,
W76-01590 9-04 2

LEONARD, G. J.
Groundwater Geology of Southwest Nebrask
Ground Water Conservation District,
W76-00005 9-01 4

LEONARD, M.
Thermal-Hydraulic Model Study of Offshor
Discharge System for Kahe Power Plan
Hawaii,
W76-08508 9-16 5

LEONARD, R. A.
A Model for Runoff of Pesticides from Sma
Upland Watersheds,
W76-08356 9-16 5

LEONARD, R. L.
Design, Construction, and Field Test Evalua
tion of a Hollow Fine Fiber Module,
W76-03156 9-07 3A

LEONARD, R. P.
Methods to Treat, Control and Monitor Spille
Hazardous Materials,
W76-01869 9-04 5C

LEONE, R. A.
Changing Water Use In Selected Manufactur
ing Industries,
W76-03284 9-07 3E

Water Pollution Control Act of 1972, Economic
Impacts, Iron and Steel Industry,
W76-10557 9-20 5C

Water Pollution Control Act of 1972, Economic
Impacts, Non-Ferrous Metals Industry,
W76-10565 9-20 5C

Water Pollution Control Act of 1972, Economic
Impacts, Petroleum Refining Industry,
W76-10560 9-20 5C

Water Pollution Control Act of 1972, Economic
Impacts, Pulp and Paper Industry,
W76-10559 9-20 5G

LEONG, K. W.
Mercury Distribution in Ancient and Modern
Sediment of Northeastern Bering Sea,
W76-01586 9-04 5B

LEPLEY, L. K.
Remote Sensing of Resources in Arid Lands,
W76-06260 9-13 7A

PPARD, G. G.
solation and Characterization of Actinopolyspora Halophila, Gen. ET SP. Nov., An Extremely Halophilic Actinomycete,
W76-08837 9-17 5C

PPER, S. P.
Diurnal Solar Flux Distribution in a Deep Water Reservoir,
W76-04941 9-10 2H

RAY, C.
Blood and Liver Enzymes in Rainbow Trout (Salmo Gairdneri Rich) with Emphasis on Their Diagnostic use: Study of CC14 Toxicity and a Case of Aeromonas Infection,
W76-03034 9-07 5C

RCH, G.
Sludge Dehydration During the Purification of Circulating Water in Foundries and of Residual Waste Water in Foundries (Schlammentwaesserung Bei Der Reinigung Von Giessereikreislaufwasser Und Giesserei-Restabwasser),
W76-05340 9-11 5D

RCH, K.
Electronic Computation of Quantities and Costs for Sewerage Systems Construction (Massenermittlung und Kostenberechnung im Kanalisationsbau mit elektronischen Datenverarbeitungsanlagen),
W76-00796 9-02 5D

RCH, R. E.
Acid Digestion of Combustible Wastes: A Status Report,
W76-12776 9-24 5D

RMAN, A.
Stokes' Settling and Chemical Reactivity of Suspended Particles in Natural Waters,
W76-03878 9-08 2L

Stratified Lake and Oceanic Brines: Salt Movement and Time Limits of Existence,
W76-02696 9-06 5B

Uptake and Migration of Tracers in Lake Sediments,
W76-01475 9-03 2H

RMAN, J. C.
Natural Isotopes in Surface and Groundwater from Argentina,
W76-06185 9-13 2F

RMAN, S.
Environmental Quality Research, First Annual Report,
W76-09654 9-18 5C

RNER, A. D.
Alignment of Longitudinally Aerating Aeration Tanks (Naladka aerotankov prodlennoy aeratsii),
W76-05587 9-12 5D

ROY, J. H.
Plutonium in Atlantic Coastal Estuaries in the Southeastern United States of America,
W76-08600 9-16 5C

SCHACK, L. A.
Correlation of Dual-Channel Airborne IR Data with Soil Moisture Measurements,
W76-06660 9-13 2G

SEMAN, W. G.
Phosphorus Transport in a Packed Bed Reactor,
W76-11632 9-22 5D

LESH, E.
Sewage Disposal Systems,
W76-00773 9-02 5E

LESHCHINSKII, G. T.
Mean Annual Runoff in Central Asia and Western Kazakh Deserts, (In Russian),
W76-05304 9-11 2E

LESLIE, L. M.
Numerical Methods for Predicting Precipitation in Catchment Hydrology,
W76-04129 9-09 2B

LESSEL, T.
Experience with a Pilot Plant for the Irradiation of Sewage Sludge; Design, Operation Experience and Cost Calculations After 18 Months of Continuous Running,
W76-09546 9-18 5D

LETELIER, M. F.
Skin Friction in Unsteady Laminar Pipe Flow,
W76-06389 9-13 8B

LETEY, J.
Soil Water Repellency and the Use of Nonionic Surfactants,
W76-04001 9-09 2G

LETOUZEY, R.
First Observations on the Forest of Cameroon on Sandy Coastal Cordons, (In French)
W76-09100 9-17 2I

LETTENMAIER, D. P.
Dynamic Water Quality Management Strategies,
W76-03158 9-07 5G

Operational Comparison of Stochastic Streamflow Generation Procedures,
W76-04727 9-10 2E

Use of State Estimation Techniques in Water Resource System Modeling,
W76-07143 9-14 5B

LETTER, J. V. JR.
Physical Hydraulic Models: Assessment of Predictive Capabilities; Report 1, Hyrodynamics of the Delaware River Estuary Model,
W76-07463 9-15 8B

LETTERMAN, R. D.
Optimizing Flocculator Power Input,
W76-12525 9-23 5D

A Study of the Treatment of Lake Michigan Water Using Direct Filtration,
W76-00175 9-01 5F

LEU, D.
Basic Investigations for Remote Sensing of Coastal Areas,
W76-13183 9-24 2L

LEU, D. J.
Basic Remote Sensing Investigations for Beach Reconnaissance: An Interim Report,
W76-12375 9-23 2L

LEU, J. E.
Advanced Waste Treatment Plant Features Nitrification,
W76-09020 9-17 5D

LEUNG, A.
Analysis of Models for Commercial Fishing: Mathematical and Economical Aspects,
W76-08078 9-15 6C

LEUNG, P. S.
A Neutron Scattering Study of Water and Ionic Solutions,
W76-03261 9-07 1B

LEUTHART, C.
Natural Biological Control of the Salt Marsh Mosquito in the Acid Mine Drainage Swamps in Western Kentucky,
W76-02433 9-05 5G

LEUTHEUSSER, H. J.
Hydraulic Jump in a Rough Channel,
W76-00311 9-01 8B

Skin Friction in Unsteady Laminar Pipe Flow,
W76-06389 9-13 8B

LEVADNAYA, G. D.
Effect of Hydraulic Engineering Construction on Phytobenthos of the OB and Yenisei Rivers, (In Russian),
W76-04938 9-10 5C

LEVANDOVSKAYA, L. YA.
Hydrochemical Regime and Chemical Composition of Oligotrophic Bog Waters,
W76-07079 9-14 5B

LEVE, G. W.
Floridan Aquifer in Northeast Florida--Three Maps--Hardness of Water, Chloride Concentration, and Potentiometric Surface, May 1974,
W76-05859 9-12 7C

Geohydrology of the Lake Area at Kathryn Abbey Hanna Park, Jacksonville, Florida,
W76-07602 9-15 2F

LEVEAU, M.
Planktonic Ecosystems. The Effects of Dystrophic Conditions on Structure and Function in the Gulf of FOS (Ecosysteme Planctonique. Structure et Fonctionnement en Relation Avec des Phenomenes de Dystrophie (Golfe de Fos)),
W76-03658 9-08 5C

Planktonic Ecosystems: The Effects of Dystrophic Conditions on Structure and Function in the Gulf of Fos, (In French),
W76-08312 9-16 5C

LEVEN, C. L.
Analysis of Theories and Methods for Estimating Benefits of Protecting Urban Flood Plains,
W76-01595 9-04 6B

LEVENTON, O. L.
Removal of Hydrogen Sulfide from Drinking and Industrial Water, (In Russian),
W76-11541 9-21 5F

LEVEQUE, K.
Mollusks of the Ceratophyllum Carpets of Lake Chad: Biomasses and Seasonal Variations of the Density, (In French).
W76-09094 9-17 2H

LEVERETTE, S.
The Effect of Breaker Shape on Impact Pressures in Surf,
W76-01499 9-03 2L

LEVERING, S.
Commentary on: Future Prospects for Law of the Sea: Comments on Caracas and Prediction for the Future,
W76-07350 9-14 6E

LEVI, D. R.
Legal Remedies for Pollution Abatement,
W76-01403 9-03 5G

LEVI, D. R.

Water Pollution Laws and Regulations,
W76-01375 9-03 5G

LEVIN, A. G.
A Snowmelt Runoff Model and its Application to Short-Range Forecasting of Flood Discharges,
W76-12440 9-23 2C

LEVIN, G. V.
Methodology for Application of Adenosine Triphosphate Determination in Wastewater Treatment,
W76-03232 9-07 5D

LEVIN, Z.
The Effect of Electrical Conductivity on the Growth of the Electric Field in a Thunderstorm,
W76-03113 9-07 2B

A Stochastic Electrical Model of an Infinite Cloud: Charge Generation and Precipitation Development,
W76-02404 9-05 2B

LEVINE, M. D.
Energy Development: The Environmental Tradeoffs. Volume 3: Relative Environmental Ranking of Proposed Offshore Continental Shelf Areas on the Basis of Impacts of Oil Spills,
W76-13039 9-24 6G

LEVINE, S.
Zooplankton Production in Lake Ontario as Influenced by Environmental Perturbations,
W76-02502 9-06 5C

LEVINS, P. L.
Chemical Impact of Snow Dumping Practices,
W76-10049 9-19 5C

LEVINSON, E. D.
Field Observation of the Dynamics of Heated Discharge Jets,
W76-12775 9-24 5B

Field Observations of the Dynamics of Heated Discharge Jets,
W76-11307 9-21 5B

LEVIT, I. S.
Intensification of Biological Purification of Effluents (Intensifikatsiya biologicheskoi ochistki stokov),
W76-11391 9-21 5D

LEVY, D.
Stability Indicators for Nutrient Cycles in Ecosystems,
W76-04838 9-10 5C

LEVY, E. M.
The Quantitative Determination of Trace Concentrations of Petroleum-Derived Pollutants in the Ocean,
W76-05147 9-11 5A

LEWANDOWSKI, R.
Apparatus for Treating Waste Waters,
W76-04270 9-09 5D

LEWANDOWSKI, T. P.
An Economic Study of the Unox and Conventional Aeration Systems,
W76-06288 9-13 5D

The Use of High-Purity Oxygen in Sewage Treatment,
W76-03335 9-07 5D

LEWIN, D. C.
Protein Recovery from Dairy Wastes by Electroflotation,
W76-04216 9-09 5D

LEWIN, H. D.
Correlation Between Sowing Time and Weather Factors on the Intensity of Groundnut Diseases,
W76-06800 9-13 3F

LEWIN, J.
Blooms of Surf-Zone Diatoms Along the Coast of the Olympic Peninsula, Washginton. V. Environmental Conditions Associated with the Blooms (1971 and 1972),
W76-01160 9-03 5C

LEWIN, R. A.
Leucothrix: Absence of Demonstrable Fixation of N2,
W76-08953 9-17 5C

Temperature Responses of a Coccolithophorid, Cricosphaera Carterae, Measured in a Simple and Inexpensive Thermal-Gradient Device,
W76-12764 9-24 5A

LEWIS, B. A.
Ohio River Cooling Water Study,
W76-10414 9-19 5C

LEWIS, B. W.
Identification of Hydrocarbons in an Extract from Estuarine Water Accomodated No. 2 Fuel Oil,
W76-10397 9-19 5A

LEWIS, C. F. M.
Surficial Sediments of Lake Erie,
W76-08725 9-16 2J

LEWIS, C. H.
Penetration and Mixing of Heated Discharges into Waterways,
W76-08926 9-17 5B

LEWIS, D. H.
Regina Tertiary Treatment Plant Study and Design, Part I, Case History,
W76-09178 9-17 5D

Regina Tertiary Treatment Plant Study and Design, (Part II),
W76-10516 9-20 5D

LEWIS, D. T.
Rates of Water Entry into the Subsoil of Several Soil Series in Nebraska,
W76-00008 9-01 5D

Use of Erts-1 Imagery to Interpret the Wind Erosion Hazard in Nebraska's Sandhills,
W76-01309 9-03 2J

LEWIS, E. L.
Oil in Sea Ice,
W76-11098 9-20 5B

LEWIS, G. C.
Establishing Water, Nutrient and Total Solids Mass Budgets for a Gravity-Irrigated Farm,
W76-13015 9-24 3F

Factors Influencing the Loss of Nitrogen and Phosphorus from a Tract of Irrigated Land,
W76-13014 9-24 5G

LEWIS, G. L.
Safety Factors for Riprap Protection,
W76-11856 9-22 8B

LEWIS , J.
Correlation of Dual-Channel Airborne IR Da
with Soil Moisture Measurements,
W76-06660 9-13 2

LEWIS, J. W.
St. Lawrence Seaway: A New Goal of Yea
Round Navigation,
W76-09942 9-18 2

LEWIS, K.
Effect of Suspended Coal Particles on Li
Forms of Aquatic Moss Eurhynchiu
Riparioides (HEDW): II. The Effect on Spo
Germination and Regeneration of Apical Tips,
W76-12913 9-24 5

LEWIS, N. F.
Scope for Utilizing Gamma Radiation f
Microbiological Control of Sewage Wast
Water in India,
W76-09526 9-18 5

LEWIS, P. A.
The Influence of Sieve Mesh Size Selectivi
on Benthic Invertebrate Indices of Eutrophic
tion,
W76-04911 9-10 5

LEWIS, P. J.
Efficient, Nonpolluting Ethylbenzene Process
W76-05498 9-11 5

LEWIS, R. A.
Physical Growth and Behavioral Developme
of Mice Receiving Chlorine and Fluorine,
W76-10551 9-20 5

LEWIS, R. B.
Irrigation Timing by the Stress Day Inde
Method,
W76-01082 9-03 3

LEWIS, R. F.
Review of EPA Research and Developme
Lagoon Upgrading Program for Fiscal Yea
1973, 1974, and 1975,
W76-07048 9-14 5

LEWIS, R. W.
Applications of Electro-Osmosis to Groun
Water Flow Problems,
W76-03362 9-07 2

Finite Element Solutions to Two Groundwat
Flow Problems - One Including Dispersion an
the Other the Influence of Electro-Osmosis,
W76-03962 9-08 5

LEWIS, S.
Assessing Physical Potential for Deep Dispos
of Industrial Wastes by Wells in the Southeas
ern United States,
W76-03840 9-08 5

LEWIS, W. C.
Regional Development: An Econometric Stud
of the Role of Water Development in Effe
tuating Population and Income Changes,
W76-03137 9-07 6

LEWIS, W. M.
Effects of Forest Fires on Atmospheric Load
of Soluble Nutrients,
W76-10328 9-19 4

A Theoretical Comparison of the Attenuatio
of Light Energy and Quanta in Waters
Divergent Optical Properties,
W76-04585 9-10 5

VIS, W. M. JR.
mounts and Spectral Properties of Dissolved rganic Compounds from Some Freshwater of e Southeastern U.S.,
76-12138 9-22 5A

ffects of Fire on Nutrient Movement in a uth Carolina Pine Forest,
76-11933 9-22 5B

valuation of Heat Distribution in a South arolina Reservoir Receiving Heated Water,
76-03463 9-07 5C

ZOZYNSKI, W.
issolved Oxygen Analyzer T-01 Analyzer. A mple Apparatus for Electrochemical Deter- ination of Dissolved Oxygen in Water lenomierz T-01 uproszczony przyrzad elek- ochemicznego oznaczania tleunu roxpuszc- mego w roztworach wodnych),
76-09688 9-18 5A

NAUD, G.
ffects of a Thermal Discharge into a River on e Movement of Fish Populations, (Incidences 'un Rejet Thermique En Milieu Fluvial Sur es Mouvements Des Populations htyologiques),
76-08871 9-17 5C

THAM, K. M.
he Simulation of Sediment Transport,
76-10244 9-19 2J

A. D.
etroleum Processing Aq. Effluents Purifica- on,
76-03060 9-07 5D

E. C. C.
he Significance of Hydrogen Sulfide in roundwater,
76-01781 9-04 5B

echnique Alternatives for a Package Stabiliza- on Plant,
76-09705 9-18 5D

NG, T.
n LP-10 Model for Coordinating Multi-Group nputs in Resource Planning,
76-10192 9-19 6A

emote Sensing of Ground and Surface Water ontamination by Leachate from Landfill,
76-10666 9-20 5A

O, C. F-H.
Microbiology of Two-Stage Kraft Waste Treat- ent,
76-04766 9-10 5D

O, P. B.
ntensified Fish Culture Combining Water econditioning with Pollution Abatement,
76-07711 9-15 5G

W, C-Y.
Dynamic Properties of San Bernardino Intake ower,
76-04107 9-09 8A

BARDI, P. L.
Unsaturated Hydraulic Conductivity Deter- ination by a Scaling Technique,
76-02558 9-06 2G

BERATORE, G. L.
Biological Consideration of a Bioassay System,
76-10359 9-19 5C

LIBERTI, L.
Selective Renovation of Eutrophic Wastes Phosphate Removal,
W76-10026 9-19 5D

LIBEY, G.
A Model of Alewife Migration in the Parker River, Massachusetts for Simulating an Optimal Anadromous Fish Stock Management Program,
W76-02868 9-06 8I

LIBOR, O.
Ammonia Removal by Use of Clinoptilolite,
W76-09180 9-17 5D

Investigation of Phosphorus Removal from Water,
W76-04183 9-09 5D

LICHWA, J.
A Study of the Atomic Absorption Determination of Some Important Heavy Metals in Fertilizers and Domestic Sewage Plant Sludges,
W76-03316 9-07 5A

LICK, W. J.
A Numerical Model for Thermal Plumes and River Discharges,
W76-11310 9-21 5B

LIDKEA, T. R.
Vertical Static Tube Aerators: Evaluating Their Performance,
W76-10223 9-19 5D

LIDSTER, W. A.
Remote-Sensing Techniques for Determining Water Table Depths in Irrigated Agriculture,
W76-02160 9-05 7B

LIE, U.
Distribution and Structure of Benthic Assemblages in Puget Sound, Washington, USA,
W76-06015 9-12 5B

Long-Term Variability in the Structure of Subtidal Benthic Communities in Puget Sound, Washington, USA,
W76-03173 9-07 5C

LIEBERMAN, C. J.
Public Opinion and the Environment: Ecology, the Coastal Zone, and Public Policy,
W76-09035 9-17 6G

LIEBERT, C.
Removal of Detergent Fluorescent Whitening Agents from Waste Water,
W76-05804 9-12 5D

LIEBHARDT, W. C.
Manure and the Nitrate Problem,
W76-10616 9-20 5E

LIETZKE, D. A.
Relationship of Geomorphology to Origin and Distribution of a High Charge Vermiculitic Soil Clay,
W76-06926 9-14 2G

LIETZKE, M. H.
A Kinetic Model for Predicting the Composition of Chlorinated Water Discharged from Power Plant Cooling Systems,
W76-12894 9-24 5C

LIETZKE, T. A.
Uptake and Migration of Tracers in Lake Sediments,
W76-01475 9-03 2H

LIEVANO, R. J.
What Does a 'Clean' Environment Cost,
W76-08150 9-16 5G

LIGGETT, J. A.
Steady Stratified Circulation in a Cavity,
W76-08136 9-16 2H

LIGHT, E.
Land Application of Treated Sewage in the Mountain State,
W76-11237 9-21 5D

LIGHTHART, R.
Some Effects of Cadmium on Coniferous Forest Soil/Litter Microcosms,
W76-01862 9-04 5B

LIGON, J. T.
Measuring Watershed Land-Use Changes with Airphotos,
W76-08229 9-16 7B

Soil Moisture Regime with Subirrigation,
W76-13023 9-24 2G

LIJESEN, D. P.
Planning for Coastal Recreation Opportunities Near Large Urban Areas: A Study Relating Transportation and Recreation,
W76-01516 9-04 6B

LIKENS, G. E.
Leaching of Nutrients from Leaves of Selected Tree Species in New Hampshire,
W76-10312 9-19 5B

Nutrient Flux and Cycling in Freshwater Ecosystems,
W76-10287 9-19 5C

LILLEHAMMER, A.
Important Aspects of the River Nursery Areas of Salmon, (In Norwegian),
W76-02972 9-06 2I

Studies on the Movement of Salmon and Trout Fry and Invertebrates into Flooded Areas, (In Norwegian),
W76-07285 9-14 2I

LILLELUND, K.
Considerations of Testing the Accumulation of Pesticides by Means of Artificial Food Chains,
W76-08361 9-16 5A

LIM, H. C.
Optimal Activated Sludge Design Under Uncertainty,
W76-09628 9-18 5D

LIMAYE, D. G.
A Mathematical Approach to Some Aspects of Ground Water Flow in Hard Rock Areas,
W76-00402 9-01 4B

LIMAYE, S. D.
A Mathematical Approach to Some Aspects of Ground Water Flow in Hard Rock Areas,
W76-00402 9-01 4B

LIMMER, D.
Evaluation of a Recreational Lake Rehabilitation Project,
W76-00379 9-01 5A

LIMOGES, L.
Environmental Impacts and Monitoring of Oil and Gas Pipelines: A Technical Note,
W76-11472 9-21 6G

LIN, A.
A Survey of the Physical Limnology of Great Salt Lake,
W76-11107 9-21 2H

LIN, A-L.
Changing Water Use In Selected Manufacturing Industries,
W76-03284 9-07 3E

Water Pollution Control Act of 1972, Economic Impacts, Iron and Steel Industry,
W76-10557 9-20 5G

LIN, H-A.
Hydrodynamic and Material Transport Model for Mobile Bay, Alabama,
W76-09983 9-18 5B

LIN, H-C.
Simulation of Hydraulic Processes in Open Channels,
W76-08344 9-16 8B

LIN, J. T.
Entrainment and Drag Forces of Deflected Jets,
W76-12969 9-24 8B

LIN, L. B.
On The Generation of Mesoscale Eddies and Their Contribution to the Oceanic General Circulation. I. A Preliminary Numerical Experiment,
W76-03734 9-08 2L

On the Generation of Mesoscale Eddies and Their Contribution to the Oceanic General Circulation. II. A Parameter Study,
W76-03735 9-08 2L

LIN, P-W.
Waste Water Treatment with an SO2 Removal By-Product,
W76-03333 9-07 5D

LIN, S. Y.
The Dialectics of a Proposal on Biological Control of Eutrophication in Sewage Lagoons,
W76-03570 9-08 5C

LINACRE, E. T.
A Simpler Empirical Expression for Actual Evapotranspiration Rates: A Discussion,
W76-03521 9-08 2D

LINAWEAVER, F. P. JR
Water Use in Selected Commercial and Institutional Establishments in the Baltimore Metropolitan Area,
W76-05452 9-11 6D

LIND, A. O.
Application of ERTS Imagery to Environmental Studies of Lake Champlain,
W76-02034 9-05 7B

Vegetation Mapping in Lake Champlain Wetlands,
W76-11111 9-21 4A

LIND, C. J.
Effects of Organic Solutes on Chemical Reactions of Aluminum,
W76-02953 9-06 5B

LIND, O. T.
Effects of Thermal Circulation on Phytoplankton Photosynthesis,
W76-08785 9-17 5C

LINDBERG, E.
Mercury Enrichment in Estuarine Plant Detritus,
W76-11724 9-22 5C

LINDBERG, K-E.
Modern Drying Techniques in the Paper and Pulp Industry (Modern Torkteknik Inom Pappers-Och Cellulosaindustri),
W76-02807 9-06 5D

LINDBERG, S.
A New Color Removal Process: A Field Report,
W76-04223 9-09 5D

LINDEBORG, K. H.
Socioeconomic Analysis of a Major Rehabilitation of Irrigation and Water Management Systems in Eastern Idaho,
W76-06161 9-13 3F

LINDEMANN, E. G.
Detergent Phosphate Ban Yields Little Phosphorus Reduction, Part III,
W76-06346 9-13 5G

LINDEN, D. R.
Consequences of Waste Disposal on Land,
W76-00427 9-01 5E

LINDERMAN, C. L.
Control, Collection, and Disposal of Feedlot Runoff,
W76-07167 9-14 5D

Direct Land Disposal of Feedlot Runoff,
W76-07183 9-14 5D

Low-Cost Disposal Systems for Feedlot Runoff,
W76-12346 9-23 5G

Quality Variation of Feedlot Runoff in Storage,
W76-10549 9-20 5B

Riser Intake Designs for Feedlot Solids Collection Basins,
W76-12356 9-23 5D

LINDERMANN, E. G.
Detergent Phosphate Ban Yields Little Phosphorus Reduction, Part I,
W76-05637 9-12 5C

Detergent Phosphate Ban Yields Little Phosphorus Reduction, Part II,
W76-06345 9-13 5G

LINDGREN, L.
Algal Zonation on Rocky Shores Outside Helsinki as a Basis for Pollution Monitoring,
W76-01951 9-04 5C

LINDHOLM, G. F.
Water Resources of the Lake of the Woods Watershed, North-Central Minnesota,
W76-07115 9-14 7C

Water Resources of the Mississippi and Sauk Rivers Watershed, Central Minnesota,
W76-05428 9-11 7C

LINDHOLM, O. G.
Pollutional Analysis of Combined Sewer Systems,
W76-12530 9-23 5D

LINDLEY, D.
The Design and Performance of a 6-Cup Anemometer,
W76-02553 9-06 7B

LINDLEY, J. A.
Animal Waste and Nitrate Movement Throug Soil,
W76-12362 9-23 5

LINDLEY, R. W. JR.
Municipal Storm Water Management Program
W76-09751 9-18 4

LINDMAN, W. E.
Water Purification Process and Apparatus,
W76-09059 9-17 5

LINDPERE, A.
The Chemical Composition of the Upper Lay of Sapropel from the Viitna Lakes, (In Ru sian),
W76-01753 9-04 2

LINDQUIST, N.
Method for the Purification of Water,
W76-00597 9-02 5

LINDSAY, W. L.
The Impact of Molybdenum-Enriched Irrig tion Water on Agricultural Soils Near Brighto Colorado,
W76-08675 9-16 5

LINDSLEY, J. M.
Secondary Plant Shoehorned into Small Space
W76-07510 9-15 5

LINDSTEN, D. S.
Use of Reverse Osmosis and Ultrafiltration f Removing Microorganisms From Water,
W76-03349 9-07 5

LINDSTROM, F. T.
Pulsed Dispersion of Trace Chemical Concen trations in a Saturated Sorbing Porous Mediun
W76-10915 9-20 5

LINDSTROM, S. R.
Hydrogen Peroxide Solves Hydrogen Sulfi Problem,
W76-03219 9-07 5

LINEBARGER, R. S.
Redox Potentials in Soil Columns Intermi tently Flooded with Sewage Water,
W76-12145 9-22 5

LINES, G. C.
Digital Model to Predict Effects of Pumpin from the Arikaree Aquifer in the Dwyer Are Southeastern Wyoming,
W76-12277 9-23 4

Geohydrologic Reconnaissance and Measur ment of Perennial Streams Crossing Outcrop of the Madison Limestone, Northeaster Wyoming, 1974,
W76-05425 9-11 2

Water Resources of the Thrust Belt of Weste Wyoming,
W76-06448 9-13 7

LINES, R. W.
Laboratory Evaluation of the Coulter On-Lin Particle Monitor,
W76-09699 9-18 5

LING, C. H.
On the Calculation of Surface Shear Stres Using the Profile Method,
W76-12809 9-24 2

LING, J. T.
Making Environmental Legislation Work,
W76-02093 9-05 6

ICK, T. W.
ycling of Organic Carbon in the Ocean: Use Naturally-Occurring Radiocarbon as a Long d Short Term Tracer,
'76-08956 9-17 5C

KSWILER, J.
rizona State Water Plan, Phase I: Inventory Resource and Uses,
'76-00700 9-02 6B

LOR, W. I.
leasurement of Snowpack Wetness,
'76-12162 9-23 2C

now Wetness Measurements for Melt orecasting,
'76-12165 9-23 2C

LOR, W. L.
lectromagnetic Reflection from Multi-ayered Snow Models,
'76-07780 9-15 2C

N, T. F.
Deficiencies in the Regulatory Scheme of the Federal Water Pollution Control Act Amend-ments of 1972,
'76-05187 9-11 5G

NSLEY, R. K.
Controlling Pollution from Combined Sewers,
'76-06328 9-13 5D

Flood Plain Mapping,
'76-06312 9-13 2E

Hydrology for Engineers, Second Edition,
'76-09661 9-18 8B

NTHURST, R. A.
Detritus Production in Coastal Georgia Salt Marshes,
'76-08688 9-16 5C

PNER, H. D.
Water Filter Assembly,
'76-08392 9-16 8C

PPER, R. I.
Experience with a Spray-Runoff System for Treating Beef Cattle Feedlot Runoff.
'76-01026 9-03 5D

Performance of Feedlot Runoff Control Facili-ties in Kansas,
'76-11058 9-20 5D

Swine Waste Digestion Enhancement with Nutrient Separation,
'76-10128 9-19 5D

Transport Rate of Cod Through a Wet Porous Stratum - Measurement of Diffusivity in Cattle Manure Solution,
'76-12352 9-23 5B

Treatment and Ultimate Disposal of Cattle Feedlot Wastes,
'76-01876 9-04 5D

IPPER, R. V.
Disposal of Beef Feedlot Wastes onto Land,
'76-07184 9-14 5D

IPSCHUTZ, M. E.
Contents of Eleven Trace Elements in Ureilite Achondrites,
'76-09041 9-17 5A

LIPSCOMB, R. G.
Methods for Collection and Analysis of Aquatic Biological and Microbiological Samples,
W76-03915 9-08 5A

LIPTAK, B. G.
Higher Profits Via Advanced Instrumentation,
W76-00635 9-02 5D

LIROFF, R. A.
Economic Disincentives for Pollution Control: Legal, Political, and Administrative Dimensions,
W76-02619 9-06 5G

The Water Pollution Control Act of 1972, Institutional Assessment, Enforcement, Volume I,
W76-10574 9-20 5G

The Water Pollution Control Act of 1972, Institutional Assessment, Enforcement Volume II,
W76-10575 9-20 5G

LIS, A. W.
Analysis of Pulp and Paper Mill Waste Waters by High-Resolution Ion-Exchange Chromatography,
W76-05709 9-12 5A

LISAC, I.
Some Characteristics of A Dusty Rain in Yugoslavia,
W76-10906 9-20 5A

LISANTI, A. F.
95% BOD Removal Result of Fruit Plant Modifications,
W76-04201 9-09 5D

LISCHKE, P.
Residual Organic Matter in Activated Sludge Process Effluents. IX. Isolation from Water, Fractionation on Aluminum Oxide Columns and Attempts of Identification (Zbytkove latsy po aktivacnim procesu. IX. Izolace z vodneho prostredi, deleni na kyslicniku hlinitem a pokusy o identifikaci),
W76-10515 9-20 5A

Residual Organic Matter in Activated Sludge Process Effluents VIII. Separation by Molecular Weights on Sephadex Columns (Zbytkove latky po aktivacnim procesu VIII. Deleni podle molekulovych hmotnosti na sephadexech),
W76-10514 9-20 5A

LISETH, P.
Wastewater Disposal by Submerged Manifolds,
W76-06387 9-13 5B

LISIECKI, J. B.
Dynamics of Hazardous Elements in Wastewater Ponds,
W76-02867 9-06 5D

LISK, D. J.
Flame Retardant Release from Fabrics During Laundering and Their Toxicity to Fish,
W76-00340 9-01 5C

LISS, P. S.
Removal of Dissolved Boron and Silicon During Estuarine Mixing of Sea and River Waters,
W76-09725 9-18 2K

LISSAUER, I. M.
A Computer Simulation Technique for Oil Spills Off the New Jersey-Delaware Coastline,
W76-11940 9-22 5B

Predicted Oil Slick Movement from Various Locations Off the New Jersey-Delaware Coastline,
W76-12376 9-23 5B

LISSITZYN, O. L.
A New International Law for the Deep Seabed Regime,
W76-10726 9-20 6E

LISTER, G. H.
Water Conservation--An Alternative to Solvent Dyeing,
W76-01628 9-04 3E

LISTON, J.
Mesophilic Clostridia in Puget Sound,
W76-07255 9-14 5C

LITERATHY, P.
Study of River Pollution Caused by Micropollutants,
W76-02692 9-06 5B

LITSKY, W.
Comparison of the New Millipore HC with Conventional Membrane Filters for the Enumeration of Fecal Coliform Bacteria,
W76-05069 9-11 5A

LITTLE, J. W.
Performance Characteristics of 'Bulk Effect' Humidity Sensors,
W76-00886 9-02 7B

LITTLE, L. W.
Characterization and Treatment of Brine Wastewaters From the Cucumber Pickle Industry,
W76-10805 9-20 3E

LITTLEPAGE, J. L.
Cadmium Concentrations in Rock Scallops in Comparison with some other Species,
W76-12715 9-24 5C

LITTLER, M. M.
Impact of Sewage on the Distribution, Abundance and Community Structure of Rocky Intertidal Macroorganisms,
W76-03023 9-07 5C

The Primary Productivity of Marine Macrophytes from a Rocky Interidal Community,
W76-07965 9-15 5C

LITVINOVA, S. T.
Water Recycling Systems at Mills Processing Waste Paper (Sistemy oborotnogo vodopotrebleniya na predpriyatiyakh, pererabatyvayushchikh makulaturu),
W76-02465 9-05 3E

LITZBARSKI, B.
Inhibition of Acetyl Cholinesterase in Insects and Fish Using Toxaphene, (In German).
W76-04697 9-10 5C

LITZBARSKI, H.
Inhibition of Acetyl Cholinesterase in Insects and Fish Using Toxaphene, (In German).
W76-04697 9-10 5C

LIU, C. T.
Thermodynamic of Salt Solutions and Geothermal Brines at Elevated Temperatures.
W76-05244 9-11 3A

LIU, H-A.
Water Resources Planning for Rivers Draining into Mobile Bay, Part II: Non-Conservative Species Transport Models,
W76-08327 9-16 5B

LIU, P. C.
Duration-Limited Wave Spectra in Lake Ontario During the 1972 Hurricane Agnes,
W76-11309 9-21 2H

Surface Wave Data Recorded in Lake Ontario During IFYGL,
W76-03184 9-07 7C

LIU, S-K.
Modeling of Three-Dimensional Flows in Estuaries,
W76-09977 9-18 2L

Stochastic Analysis and Control of Urban Estuarine Water-Quality Systems: Vol I--Estimation and Prediction,
W76-01340 9-03 5G

A Three-Dimensional Model for Estuaries and Coastal Seas: Volume III, the Interim Program,
W76-07016 9-14 2L

A Water-Quality Simulation Model for Well Mixed Estuaries and Coastal Seas: Vol. VII, A Hindcast,
W76-08317 9-16 5B

A Water-Quality Simulation Model for Well Mixed Estuaries and Coastal Seas: Volume VIII, an Engineering Assessment,
W76-13093 9-24 2L

LIU, T-C.
Response to Tides of Coastal Aquifers: Analog Simulation vs. Field Observation,
W76-04002 9-09 2F

LIUM, B. W.
Limnological Data for the Major Streams in Chester County, Pennsylvania,
W76-05852 9-12 7C

The Measurement of Adenosine Triphosphate in Pure Algal Cultures and Natural Aquatic Samples,
W76-10133 9-19 5A

LIUZZO, G.
Multistage Flash Evaporator for Producing Soft Water from a Saline Water,
W76-05978 9-12 3A

LIVINGSTON, H. D.
Comparison of the Distributions in Marine Sediments of the Fallout Derived Nuclides Fe 55 and Pu 239,240, A New Approach to the Chemistry of Environmental Radionuclides,
W76-08603 9-16 5B

Distributions of Transuranium Nuclides in Sediment and Biota of the North Atlantic Ocean,
W76-08602 9-16 5B

Double-Tracer Studies to Optimize Conditions for the Radiochemical Separation of Plutonium from Large Seawater Samples,
W76-08610 9-16 5A

A Procedure for Analysis of Amercium in Marine Environmental Samples,
W76-08611 9-16 5A

LIVINGSTON, J. M.
The Effect of Ultra Low Volume Aerial Dispersal of Naled on an Aquatic Habitat, I, EHL (K) 74-25, December 1974,
W76-04917 9-10 5C

LIVINGSTON, R. J.
Effects of Kraft Mill Effluents on Benthic Macrophyte Assemblages in a Shallow-Bay System (Apalachee Bay, North Florida, U.S.A.),
W76-10077 9-19 5C

Impact of Kraft Pulp-Mill Effluents on Estuarine and Coastal Fishes in Apalachee Bay, Florida, USA,
W76-03018 9-07 5C

LIVINGSTON, R. K.
Appraisal of Water Resources of Northwestern El Paso County, Colorado,
W76-09828 9-18 2E

LIZARRAGA-AREINIEGA, J. R.
Oregon Coast Shoreline Changes Due to Jetties,
W76-08342 9-16 8B

LIZARRAGA-PARTIDA, M. L.
Organic Pollution in Ensenada Bay, Mexico,
W76-11587 9-21 5B

LIZCANO, J. J.
Identification of Parameters in Transient Water Quality Models from Stochastic Data,
W76-07395 9-14 5G

LLOVET, J. E.
Refinery Design (Circa 1984),
W76-05104 9-11 5D

LLOYD, C.
Seabird Mortality in the North Irish Sea and Firth of Clyde Early in 1974,
W76-11727 9-22 5C

LLOYD, E. H.
Skew Inputs and the Hurst Effect,
W76-00317 9-01 4A

LLOYD, E. T.
Accumulation of Mercury by Fish of the Little Piney River and Mill Creek,
W76-07670 9-15 5A

LLOYD, H.
Wave Energized Pump,
W76-11831 9-22 8C

LLOYD, J. W.
A Surface Resistivity Investigation Over an Area of the English Chalk Aquifer,
W76-04690 9-10 2F

LO, C. P.
Photographic Analysis of Water Quality Changes,
W76-09199 9-17 5A

LOATS, H. L.
Impact of Remote Sensing Upon the Planning, Management, and Development, and Development of Water Resources,
W76-08536 9-16 6B

LOBB, H. J.
Demand-Rate Economics,
W76-01607 9-04 6C

LOBLE, H.
Interstate Water Compacts and Mineral Development,
W76-11977 9-22 3E

LOBOS, J. H.
Study of the Genus Vibrio in Drinking Wate (In Spanish),
W76-06731 9-13 5

LOCASCIO, S. J.
Efficiency of Irrigation Methods for Strawbe ries,
W76-09897 9-18 3

LOCATELLI, J. D.
Cascade Atmospheric Water Resources Pro gram, Volume I,
W76-06600 9-13 3

Cascade Atmospheric Water Resources Pro gram, Volume 2,
W76-06601 9-13 3

Cascade Atmospheric Water Resources Pro gram, Volume 3,
W76-06602 9-13 2

LOCH, J. P. G.
Tests of the Concept of Secondary Frost Heav ing,
W76-07558 9-15 2

Transport of Water and Heat in a Frozen Per meameter,
W76-10713 9-20 2

LOCHER, R.
Pollution Abatement on Farmsteads,
W76-00474 9-01 5

LOCK, J. T.
Inclusion of Dried Poultry Waste as a Feed In gredient in Catfish Rations,
W76-01091 9-03 5E

LOCKART, W. L.
Long-Term Acidification of a Lake and Result ing Effects on Fishes,
W76-11178 9-21 5

LOCKETT, M. C.
The Exchange and Growth Potential of Phosphorus in Algae Cultures,
W76-05266 9-11 5

LOCKHART, H. B.
Aerobic Photodegradation of FE(III)–Ethylenedineitrilo)Tetraacetate (Ferric Edta): Implications for Natural Waters,
W76-07096 9-14 5

LOCKHART, R. A.
Fish Toxicity of Dispersed Clay Drilling Mud Deflocculants,
W76-08896 9-17 5

LOCKLEY, J. C.
Quality of Water Discharged from an Urban Motorway,
W76-04104 9-09 5B

LOCKWOOD, C. W.
Diversion of Water Through Northfield Mt. Pumped Storage Project,
W76-06437 9-13 4A

LOCKWOOD, G.
Balanced Sprinkler Impact Drive,
W76-05957 9-12 3F

LODGE, H. G.
Irrigation Systems,
W76-02258 9-05 3F

LODHOLZ, J. C.
Equipment Applications in Wastewater Treatment Clarifiers,
W76-11206 9-21 5D

ravity Separation of Coarse Solids in Waste-ater,
/76-09028 9-17 5D

E, J. W.
n Investigation of Effluent Control Standards nd Practices (Atomic Energy Production),
/76-10828 9-20 5G

EB, S.
ountercurrent Flow Osmotic Processes for ie Production of Solutions Having a High smotic Pressure,
/76-04185 9-09 3A

EHMAN, E.
ost Allocation for a Regional Pollution Treat-ient System,
/76-05442 9-11 5G

EHR, R. C.
valuation of Methods for the Analysis of hysical, Chemical and Biochemical Properties f Poultry Wastewaters,
/76-00442 9-01 5D

nhibition of Nitrification by Ammonia and Nitrous Acid,
/76-11197 9-21 5D

he Kinetics of Microbial Nitrification,
/76-08369 9-16 5D

Nitrifying Organism Concentration and Activi-y,
/76-12647 9-23 5D

Oxygen Transfer at High Solids Concentra-ions,
/76-03236 9-07 5D

Principles of Nutrient Control for Agricultural Wastewaters,
/76-00431 9-01 5B

A Technique for Estimating Active Nitrifying Mass and its Application in Designing Nitrify-ng Systems,
/76-06296 9-13 5A

ELTZ, O. J.
Geohydrologic Reconnaissance of the Imperial Valley, California,
/76-08052 9-15 4B

ESCH, R.
The Daily Course of Water Potential and Water Balance of Plants Growing on Different Habitats of Middle Triassic Limestone in Fran-conia (In German),
/76-04955 9-10 2I

FGREN, B. E.
Land Subsidence and Aquifer-System Compac-tion in the San Jacinto Valley, Riverside Coun-ty, California--A Progress Report,
/76-05847 9-12 2F

Land Subsidence Due to Ground-Water Withdrawal, Arvin-Maricopa Area, California,
/76-02142 9-05 4B

FTIS, B.
Combined Use of Physical and Mathematical Models for Analysis of Reservoir Water Quali-ty,
/76-10439 9-19 5B

FTON, S. R.
Pathogenicity Studies with a Streptococcus SP. Isolated from Fishes in an Alabama-Florida Fish Kill,
/76-01922 9-04 5C

LOFTUS, M. E.
Growth and Dissipation of Phytoplankton in Chesapeake Bay: I. Response to a Large Pulse of Rainfall,
W76-12572 9-23 5C

LOGAN, E. R.
Environmental Analysis of Water Resources Development in Southwestern North Dakota,
W76-05351 9-11 6G

LOGAN, G. R.
A Practical Monthly Optimum Operations Model,
W76-06436 9-13 4A

LOGAN, T. H.
Prevention of Frazil Ice Clogging of Water Intakes By Application of Heat,
W76-01832 9-04 8A

LOGAN, T. J.
Nutrient and Sediment Characteristics of Tile Effluent in Ohio,
W76-08121 9-16 5B

LOGLIO, G.
A Simple Physicochemical Method of Detecting Traces of Surfactants in Water,
W76-09927 9-18 5A

LOGSDON II, O. J.
Micromethods for the Determination of Nonfilterable and Filterable Residues,
W76-11633 9-22 5A

LOGUE, D. E.
The Economics of Alternative Deep Seabed Regimes,
W76-05816 9-12 6E

Oil Tanker Pollution Control: Design Criteria vs Effective Liability Assessment,
W76-07812 9-15 5G

Optimal Leasing Policy for the Development of Outer Continental Shelf Hydrocarbon Resources,
W76-02375 9-05 6E

LOH, P. C. S.
Land Disposal of Wastewater in Hawaii,
W76-01557 9-04 5E

LOHOFF, W. G.
Soil Mositure Detection Device,
W76-02997 9-06 2G

LOHOU, R.
A Quantitative Model for the Planning of Surface Water Resources: Use of Mixed Variable Linear Programming,
W76-12546 9-23 4A

LOHSE, A.
Construction and Stabilization of Coastal Foredunes with Vegetation: Padre Island, Texas,
W76-11752 9-22 2L

International Inventory and Forecast of Offshore Petroleum and Mineral Activity,
W76-03176 9-07 6B

LOIJENS, H.
Hydrology of Glacierized Basins--Summary of Research by Glaciology Subdivision,
W76-01247 9-03 2C

LOIT, M. M.
Forecasting the Danger of Organic Compounds in the Environment, (In Russian),
W76-11734 9-22 5C

LOKEN, O. H.
Glacier Studies in the Canadian IHD Program,
W76-01241 9-03 2C

LOKEN, P. A.
Process and Apparatus for the Incineration of Aqueous Sewage Sludge,
W76-09428 9-18 5E

LOMAS, H.
'Cabos' - New Wastewater Treatment System for Vessels,
W76-07685 9-15 5D

LOMBARDO, J. L.
State of the Art--Acid Mine Drainage Control,
W76-01625 9-04 5G

LOMEN, D. O.
Modeling Soil Water Movement for Trickle Irrigation,
W76-02365 9-05 2G

Time-Dependent Linearized Infiltration: II. Line Sources,
W76-03007 9-07 2G

LOMHOFF, P. G.
Dementia Piscatoria-Sanitas Malta: The International Sea Service,
W76-05197 9-11 6E

LONCZAK, J.
Computer Program for Three-Dimensional Plottings from Irregular Finite Element Grid,
W76-11327 9-21 2F

LONG, D. A.
Municipal Wastewater Odor Still a Problem--Part 1,
W76-05773 9-12 5D

Municipal Wastewater Odor Still a Problem, Part 2,
W76-09044 9-17 5D

LONG, D. E.
Floods in Palatine Quadrangle, Illinois,
W76-07116 9-14 7C

LONG, F. L.
Disposal of Dairy Cattle Manure on Soil,
W76-07201 9-14 5D

Effect of Soil-Incorporated Dairy Cattle Manure on Runoff Water Quality and Soil Properties,
W76-10539 9-20 5B

LONG, G. E.
Model Stability, Resilience, and Management of an Aquatic Community,
W76-07976 9-15 2H

LONG, R. R.
Circulations and Density Distributions in a Deep, Strongly Stratified, Two-Layer Estuary,
W76-03172 9-07 2L

On the Depth of the Halocline in an Estuary,
W76-01270 9-03 2L

LONG, T. A.
The Economics of Recycling Converted Poultry Waste Through Cattle,
W76-00481 9-01 5D

LONGENBAUGH, R. A.
Computer Estimates of Natural Recharge from Soil Moisture Data - High Plains of Colorado,
W76-09761 9-18 2F

LONGHOUSE, A. D.
An Assessment of the Agricultural and Processing Waste Problems and Control in West Virginia,
W76-04415 9-09 5G

LONGLEY, R. W.
Precipitation in Valleys,
W76-06693 9-13 2B

LONGMAN, R. W.
Optimal Allocation of Measurement and Control Resources with Application to River Depollution,
W76-10017 9-19 5A

LONGSDORF, L. L.
Guidelines for Flash Flood and Small Tributary Flood Prediction,
W76-03417 9-07 4A

LONGSTRETH, D. J.
Conversion of Chaparral to Grass in Central Arizona: Effects on Selected Ions in Watershed Runoff,
W76-02527 9-06 5B

LONGWORTHY, V. W.
Boca Raton's New Wastewater Treatment Plant,
W76-08021 9-15 5D

LOOP, G. C.
Refinery Effluent Water Treatment Plant Using Activated Carbon,
W76-06646 9-13 5D

LOOSEMORE, W. R.
Ultrasonic River Flow Measurement,
W76-08241 9-16 7B

LOOTENS, H.
The Elimination of Phosphates and Nitrates of Waste Water by Algae Cultures: I (/n Flemish),
W76-01312 9-03 5D

LOPES-POLO, C.
Environmental Aspects of the Cooling Systems of Thermal Power Stations: Report on the Seminar Held at Zurich, May Conclusions and Recommendations, (Les Aspects D'Environment Des Systems De Refroidissement Des Centralles Thermiques),
W76-08850 9-17 6G

LOPEZ, B.
Measurement of the Oxygenation Capacity in Waste Water Treatment Plants using Completely Mixed Activated Sludge (Mesure De La Capacite D'Oxygenation Dans Les Stations De Traitement A Boues Activees En Melange Integral),
W76-09006 9-17 5D

LOPEZ-CACICEDO, C. L.
The Recovery of Metals from Rinse Waters in 'Chemelec' Electrolytic Cells,
W76-01677 9-04 5D

LOPEZ, M. A.
Techniques for Water demand Analysis and Forecasting: Puerto Rico, a Case Study,
W76-03407 9-07 6D

LOPEZ, O. G.
Determination of Urban Watershed Response Time,
W76-01339 9-03 4D

LOPUSHINSKY, W.
Soil Stability and Water Yield and Quality,
W76-05937 9-12 4D

LORAH, W. L.
Constraints on Water Development by the Appropriation Doctrine.
W76-02234 9-05 6E

LORAN, B.
Quantitative Assessment of Environmental Impact,
W76-12528 9-23 6G

LORAN, B. I.
Burn That Sludge, Incineration Along with Refuse May Answer Some Energy Questions,
W76-03826 9-08 5E

LORANSKII, D. N.
Characteristics of Boats as Sources of Sea Pollution, (In Russian),
W76-13191 9-24 5B

LORD, J. W.
Planning an Input-Output Study for Water Resources Management in Nevada,
W76-02640 9-06 6A

LORD, W. B.
Fish and Wildlife Implications of Upper Missouri Basin Water Allocation, A Research Assessment,
W76-10826 9-20 4C

LORDI, D. T.
Municipal Wastewater Plant Problems With Cyanide Effluent Regulations,
W76-03247 9-07 5D

LORDS, J. L.
Acute Cadmium Toxicity Studies Upon Nine Species of Aquatic Insects,
W76-10342 9-19 5C

Synergism Between Dissolved Oxygen and Cadmium Toxicity in Five Species of Aquatic Insects,
W76-10345 9-19 5C

LOREFICE, G. J.
The Abundance of Diatoms in the Southwestern Nearshore Region of Lake Ontario During the Spring Thermal Bar Period,
W76-11425 9-21 2H

LORENZEN, M. W.
An Evaluation of Artificial Destratification for Control of Algal Blooms,
W76-01147 9-03 5C

LORILLARD, M.
Vegetation and Landslides, (In French),
W76-09101 9-17 4C

LORIMOR, J. C.
Field Performance of Selected Beef Feedlot Waste Handling Systems,
W76-01040 9-03 5E

Monitoring on-farm waste management systems.
W76-00914 9-02 5D

Zeta Potential Studies of Colloidal Suspensions from a Beef Cattle Feedlot Surface,
W76-01096 9-03 5B

LORRAIN, R. D.
Chemical Sorting Effect at the Base of an Alpine Glacier,
W76-05403 9-11 2C

LOS', S. I.
Biochemical Characteristics of Spirulina Platensis (GOM.) Geitl.: I. Water-Soluble Group B Vitamins, (In Ukranian),
W76-09091 9-17 2I

LOSHAKOV, A. S.
Formation of Fish Fauna of the Berdyansk Reservoir in the First Twelve Years of its Existence, (In Russian),
W76-09392 9-17 2H

LOSOS, B.
Production Conditions in Trout Brooks of Beskid Mountains: Results of Research Carried out Within the Framework of the I.B.P. in the Years 1966 to 1971,
W76-06241 9-13 2E

LOSSER, G.
Identification of Hydrocarbons in an Extract from Estuarine Water Accomodated No. 2 Fuel Oil,
W76-10397 9-19 5A

LOTSPEICH, F. B.
Effects of Forest Fertilization on Two Southeast Alaska Streams,
W76-05612 9-12 5C

Effects of Forest Fertilization on Two Southeast Alaska Streams,
W76-08673 9-16 5B

Effects of Large Scale Forest Fires on Water Quality in Interior Alaska,
W76-10045 9-19 5C

LOUCKS, D. P.
Administration: Systems Analysis, (Literature Review),
W76-03159 9-07 6A

Administration - Systems Analysis, (Literature Review),
W76-12926 9-24 5G

Derivation and Evaluation of Reservoir Rule Curves,
W76-04014 9-09 4A

An Evaluation of Some Linear Decision Rules in Chance-Constrained Models for Reservoir Planning and Operation,
W76-04934 9-10 4A

Planning the Location and Capacity of Flood Control Structures,
W76-12156 9-23 4A

LOUCKS, R. H.
Coastal Circulation and Physical Oceanography of the Scotian Shelf and the Gulf of Maine,
W76-08125 9-16 2L

Upwelling Along the Yarmouth Shore of Nova Scotia,
W76-06688 9-13 2L

LOUDEN, L. R.
Waste Water Base Drilling Fluid Disposal,
W76-08914 9-17 5D

LOUDON, T. L.
Evaluation of Dairy, Beef and Swine Waste Handling Systems,
W76-07171 9-14 5D

LOUSIER, J. D.
Response of Soil Testacea to Soil Moisture Fluctuations,
W76-06038 9-12 2G

UTIT, M.
assage of Metals in Effluents, Through Bac-
ria to Higher Organisms,
/76-08449 9-16 5B

VELAND, R. E.
ube-Worm-Sediment Relationships in Popula-
ons of Pectinaria Gouldii (Polychaeta: Pec-
nariidae) from Barnegat Bay, New Jersey,
/76-10061 9-19 2L

VELOCK, P. E. R.
roundwater Conditions in the Penrith Sand-
one at Cliburn, Westmorland,
/76-00309 9-01 4B

VETT, R. J.
nalysis of Chromium in Natural Waters by
as Chromatography,
/76-04761 9-10 5A

VTSEVICH, E. L.
ertain Aspects of the Process of Enterovirus
nactivation with Chlorine, (In Russian),
/76-11568 9-21 5F

irect Detection of Pathogens of Intestinal In-
ections in Water, (In Russian),
/76-07274 9-14 5A

Iygienic Evaluation of Electrodialysis Water
esalination Set Up, (In Russian),
/76-12394 9-23 5D

WE, C. H.
A Second Locality for Native California Fan
Palms (Washingtonia Filifers) in Arizona,
W76-13069 9-24 2I

WE, H.
Gamma Irradiation for Sewage Treatment at
US Army Facilities,
W76-09525 9-18 5D

WE, H. N.
Synergistic Effects of Irradiation of Waste-
Water.
W76-09524 9-18 5D

WE, K. E.
Tough Illinois Effluent Standards are met by
Celotex Boxboard Mill,
W76-10856 9-20 5G

WES, F.
Guide to the Costing of Water from Nuclear
Desalination Plants,
W76-05436 9-11 3A

WHAM, H. W.
A Plan for Study of Water and Its Relation to
Economic Development in the Green River and
Great Divide Basins in Wyoming,
W76-12805 9-24 6D

WMAN, F. G.
Trace Element Interactions in the Estuarine
Zone of the Anasco River, Puerto Rico,
W76-10892 9-20 5C

WRY, F. E.
Disposal of Dairy Cattle Manure on Soil,
W76-07201 9-14 5D

WRY, M. E.
Geohydrologic Reconnaissance and Measure-
ment of Perennial Streams Crossing Outcrops
of the Madison Limestone, Northeastern
Wyoming, 1974,
W76-05425 9-11 2E

LOWTHION, D.
The Combined Effects of High Salinity and
Temperature on the Survival of Young Liman-
da Limanda,
W76-06148 9-12 5C

LOXLEY, C.
An Econometric Forecasting Model for the
Major Metropolitan Areas in the Lake Erie
Basin,
W76-11322 9-21 5B

LOY, S. E. III
Stop Drill String Connection Failure,
W76-04049 9-09 8G

Techniques of Deep Well Drilling,
W76-08890 9-17 8B

LOYACANO, H. A. JR.
Effects of Cage Culture of Catfish Upon Water
Quality in Reservoirs,
W76-07585 9-15 5B

LOYTTYNIEMI, K.
Transfer of Lindane from Bark of Insecticide-
Sprayed Pine Pulpwood into Effluent from a
Barking Drum (Lindaanin huuhtoutumisesta
suojaruiskutetun mantykuitupuun kuoresta
rumpukuorimon jateveteen),
W76-05734 9-12 5B

LOZANSKY, V. R.
Application of Mathematical Modelling to
Water Quality Formation Processes for Opera-
tive Management of Complex Water Resources
Systems,
W76-12547 9-23 5G

LU, B. T. D.
Evaluation of Offshore Breakwater Stability
Under Wave Action,
W76-09387 9-17 5G

LU, P-Y.
Model Ecosystem Studies of Lead and Cadmi-
um and of Urban Sewage Sludge Containing
These Elements,
W76-07013 9-14 5C

LUBCZYNSKA, J.
The Effect of Microorganisms on Phytotoxicity
of Herbicides. III. Interaction of Bacillus SP.
72 with Venzar,
W76-07105 9-14 5C

LUBETKIN, S. A.
EPA Money Proposals Cause Concern,
W76-01783 9-04 5G

LUBINUS, L.
Current Livestock Pollution Regulations,
W76-01385 9-03 5G

LUCAS, C.
The Sediments of High Mountain Lake: Struc-
ture: Nature and Populations, (In French),
W76-09347 9-17 2J

LUCAS, M.
Effectiveness of Hypochlorous Acid and
Hypochlorite Ion in Destruction of Viruses and
Bacteria,
W76-00117 9-01 5F

LUCAS, Y.
Determination of Radionuclides of Ce, Co, Fe,
Ru, Zn and Zr in Seawater by Preconcentration
of Colloidal Manganese Dioxide, Application to
the Determination of Low Level Ruthenium
106,
W76-08618 9-16 5A

LUCEY, P. J.
Wisconsin Annual Report 1975,
W76-12964 9-24 6B

LUCK, E.
Sewage Treatment,
W76-02605 9-06 5D

Sewage Treatment,
W76-05582 9-12 5D

LUCKE, J. B.
Minimizing the Operating and Capital Costs of
Water Supply Projects,
W76-05522 9-12 6A

LUCKNER, L.
Problems Related to the Renewed Groundwater
Level Rise in Previous Mining Areas as Illus-
trated by the Southern Lusatia Example
(Probleme des Grundwasserwiederanstiegs in
Ehemrligen Bergbaugebieten am Beispiel der
Sued-Lausitz),
W76-07663 9-15 5B

LUCZAK, J.
Limnological Character of Experimental Reser-
voirs Treated with Tritox 30% (DDT, DMDT,
GAMMA HCH),
W76-06012 9-12 5C

A Trial of Application of a Ionoselective Elec-
trode for Nitrate Determination in Sanitary-Hy-
gienic Examinations of Water (Proba
Zastosowania Elektrody Jonoselektywnej Do
Oznaczania Azotanow W Sanitarnym Badaniu
Wody),
W76-01751 9-04 5A

LUDLOW, M. M.
Water Stress Suspends Leaf Ageing,
W76-11934 9-22 2I

LUDVIK, J.
Engineering Methods of Process Solutions in
the Treatment of Tannery Effluents,
W76-07505 9-15 5D

Water Quality Aspects of Tannery Effluents
Disposal,
W76-01645 9-04 5D

LUDWICK, J. C.
Field Performance of Permeable Breakwater,
W76-08684 9-16 8A

LUDWIG, D. F.
Interactive Effects of Predation Pressure and
Insecticide (Temefos) Toxicity on Populations
of the Marsh Fiddler Crab Uca Pugnax,
W76-09114 9-17 5C

LUDWIG, H. F.
Regional Water Quality Management,
W76-12147 9-22 5G

LUE-HING, C.
Biological Nitrification of Sludge Supernatant
by Rotating Disks,
W76-05800 9-12 5D

Municipal Wastewater Plant Problems With
Cyanide Effluent Regulations,
W76-03247 9-07 5D

Nitrification of a High Ammonia Content
Sludge Supernatant by Use of Rotating Discs,
W76-03228 9-07 5D

LUEBS, R. E.
Evapotranspiration of Dryland Barley With
Different Plant Spacing Patterns,
W76-01697 9-04 2D

LUECK, B. F.
Treatment of Sulfite Evaporator Condensates for Recovery of Volatile Components,
W76-02336 9-05 5D

LUECKE, D. F.
Application of Systems Analysis Models to the Problem of Conjunctive Use of Surface and Groundwater in the Vega of Granada,
W76-00818 9-02 4B

LUEDTKE, R. J.
Upper Yellowstone River Water Quality: August 1973 - August 1974,
W76-02638 9-06 5B

LUGANSKIY, M. A.
Joint Biological Purification of Domestic and Industrial Waste Waters (Sovmestnaya biologicheskaya ochistka khozyaystvennobytovkh i proizvodstvennykh stochnykh vod),
W76-07515 9-15 5D

LUGO, A. E.
Aspects of Mineral-Nutrient Cycling in a Southern Mixed-Hardwood Forest in North Central Florida,
W76-10318 9-19 5B

The Gradient of Salinity, Its Seasonal Movement, and Ecological Implications for the Lake Izabal-Rio Dulce Ecosystem, Guatemala,
W76-07975 9-15 5C

LUICK, J. R.
Relationship Between Potassium Intake and Radiocesium Retention in the Reindeer,
W76-10305 9-19 5C

LUKASHEVICH, L. T.
Hygienic Evaluation of Potatoes Grown in Soil Irrigated with Effluents from Coking and Chemical Plants of the Donets Coal Basin, (In Russian),
W76-12369 9-23 5C

LUKE, J. C.
Special Solutions for Nonlinear Erosion Problems,
W76-01296 9-03 2J

LUKE, L. K. C.
The Hawaiian Archipelago Defining the Boundaries of the State,
W76-07818 9-15 6E

LUKEN, R. A.
Relating Environmental Modeling to Policy Issues and Decisions,
W76-11879 9-22 5G

LUKES, J. A.
Removal of Sodium Chloride from Pulp Mill Operations,
W76-01672 9-04 5D

LUKINYKH, N. A.
Storm Runoff Purification in Combined Sewer Systems in Towns of the USA (Ochistka livnevykh vod v sisteme obshchesplavnoy kanalizatsii gorodov SShA),
W76-03211 9-07 5D

LULEY, R. A.
Factory and Field Testing of Pumps,
W76-00281 9-01 8C

LUMB, A. M.
Comparison of the Georgia Tech, Kansas, Kentucky, Stanford and TVA Watershed Models in Georgia,
W76-06806 9-14 2A

Criteria for Selecting a Water Quality Model for 208 Planning,
W76-09212 9-17 5G

Remedial Measures for Urban Flood Peak Reduction,
W76-09736 9-18 2E

LUND, D. B.
Impact of the Individual Quick Blanch (IQB) Process on Cannery Waste Generation,
W76-04742 9-10 3E

LUND, E.
Public Health Aspects of Waste-Water Treatment,
W76-09516 9-18 5D

LUND, J. A.
Effects of Clear-Cutting on Nutrient Losses in Aspen Forests on Three Soil Types in Michigan,
W76-10315 9-19 4C

Evaluation of Stream Channelization and Mitigation on the Fishery Resources of the St. Regis River, Montana,
W76-11800 9-22 4C

LUND, J. W. G.
Observations and Experiments on the Phytoplankton of Blelham Tarn, English Lake District I. The Experimental Tubes,
W76-06758 9-13 5C

LUND, L. J.
Nitrate Concentrations in Deep Soil Cores as Related to Soil Profile Characteristics,
W76-00726 9-02 5B

Nitrogen and Phosphorus Levels in Soils Beneath Sewage Disposal Ponds,
W76-09197 9-17 5A

Trace Element Concentrations of Sewage Treatment Plant Effluents and Sludges; Their Interactions with Soils and Uptake by Plants,
W76-06332 9-13 5B

LUND, N.
Radiation Treatment Method and Apparatus for Decontamination of Polluted Fluid,
W76-01136 9-03 5D

LUND, W.
Anodic Stripping Voltammetry with the Florence Mercury Film Electrode Determination of Copper, Lead and Cadmium in Sea Water,
W76-01105 9-03 5A

LUND, Z. F.
Disposal of Dairy Cattle Manure on Soil,
W76-07201 9-14 5D

Effect of Soil-Incorporated Dairy Cattle Manure on Runoff Water Quality and Soil Properties,
W76-10539 9-20 5B

LUNDBERG, K. R.
Water Quality Control Through Single Crop Agricultural, No 4,
W76-02272 9-05 5G

LUNDBERG, P. E.
Nitrogen Conservation Under Corn Planted in Quackgrass Sod,
W76-08541 9-16 3F

LUNDE, T. T.
Portable Breakwater with Ship Hulks,
W76-10459 9-19 8B

LUNDEEN, L. J.
Establishing a Process Framework for Land Use Planning,
W76-02241 9-05 6A

LUNDQVIST, B. O.
Mobile Purifying Plant for Waste Water,
W76-00572 9-02 5D

LUNDY, D. T.
Lake Michigan Gets Help,
W76-08246 9-16 5E

LUPSHA, P. A.
Rain Dance Doesn't Work Here Anymore, or Water Use and Citizen Attitudes Toward Water Use in Albuquerque, New Mexico,
W76-05016 9-11 6B

LUQUE, R. F.
Erosion and Transport of Bed-Load Sediment,
W76-12827 9-24 2J

LUR'E, Y. Y.
Determination of Volatile Phenols in Wastewaters of Chemical Pharmaceutical Industries (In Russian),
W76-03639 9-08 5A

New Method for the Determination of the Total BOD Content of Wastewaters (Novyy metod opredeleniya BPK-polnogo stochnykh vod),
W76-02193 9-05 5A

LUSCINSKA, M.
Communities of the Periphyton Algae of Channel Lakes of Byszewo,
W76-01168 9-03 5C

LUSH, D.
Environmental Monitoring: A New Requirement for the Mining Industry,
W76-00037 9-01 5A

LUSZCZ, L. J.
A Survey of Effects of Animal Wastes on Stream Pollution from Selected Dairy Farms,
W76-03974 9-08 5B

LUTHIN, J. N.
Coupled Saturated-Unsaturated Transient Flow in Porous Media: Experimental and Numerical Model,
W76-05684 9-12 2F

Heat and Mass Transfer in Cold Region Soils,
W76-03001 9-07 2C

LUTRICK, M. C.
Agronomic and Cattle Studies with Municipal Liquid Digested Sludge,
W76-09367 9-17 5E

LUTZ, A.
Uptake of Mercury by Freshwater Clams (Family Unionidae),
W76-02331 9-05 5A

LUTZ, G. A.
Discharge and Flow Distribution, Columbia River Estuary,
W76-02143 9-05 5B

LUTZ, J. A. JR.
Chemical Composition and Yield of Soybeans as Affected by Irrigation and Deep Placement of Lime, Phosphorus and Potassium,
W76-06338 9-13 3C

Effects of Fertilization and Irrigation on Yield and Potassium Content of Alfalfa and on Available Soil Potassium,
W76-06243 9-13 3F

TZ, J. J.
omparing Inflow and Infiltration,
76-10683 9-20 5D

TZ, R.
he Development Criteria of the Preliminary oastal Plan,
76-13092 9-24 2L

Livestockman's Guide to Pollution Laws,
76-05171 9-11 5G

TZ, W.
roblems of Waste Water Treatment Plant Probleme Einer Zentralklaeranlage),
76-03090 9-07 5D

KMOORE, R. J.
imulation of Evapotranspiration and Drainage om Mature and Clear-Cut Deciduous Forests nd Young Pine Plantation,
76-02426 9-05 2D

AGINSKAYA, A. M.
he Passage of Tritium with Drinking Water nto the Body of Rats and Their Progeny in a hronic Experiment, (In Russian),
76-12392 9-23 5C

AKHNOVICH, V. P.
iology and Bioenergetics of Grass Carp Ctenopharyngodon Idella Val.),
76-06013 9-12 2I

AKHOV, S. M.
ong-Term Changes in the Benthos Biomass of he Kuibyshev Water Storage Basin, (In Rus- ian),
76-13198 9-24 5C

KINS, B. W. JR.
nterim Report on the Impact of Public Law 92- 00 on Municipal Pollution Control Technolo- y,
76-05867 9-12 5D

KLEMA, J.
Polymer Adsorption and Its Effect on the Sta- ility of Hydrophobic Colloids. II. The Floccu- ation Process as Studied with the Silver odide-Polyvinyl Alcohol System,
76-04295 9-09 5F

LES, L.
Predicting Nitrogen Fertilizer Requirements After Land Leveling,
76-00155 9-01 3F

Soil Detachment From Clods by Simulated Rain and Hail,
76-00030 9-01 2J

Wind Erosion: The Protective Role of Simu- lated Standing Stubble,
76-09247 9-17 4D

Wind Erosion: Uniformly Spacing Nonerodible Elements Eliminates Effects of Wind Direction Variability,
76-03127 9-07 4D

MAN, F. L.
Accumulation and Eliminating Studies of Four Detergent Fluorescent Whitening Agents in Bluegill (Lepomis Macrochitus),
76-00318 9-01 5A

MAN, W. L.
Appendices to: Survey Study to Select a Limited Number of Hazardous Materials to Define Amelioration Requirements,
76-01902 9-04 5A

LYNCH, J. A.
Effects of Management Practices on Water Quality and Quantity: Penn State Experimental Watersheds,
W76-09463 9-18 4D

Forest Management Practices as Related to Nutrient Leaching and Water Quality,
W76-09471 9-18 4C

Municipal Watershed Management: What are the Opportunities,
W76-09472 9-18 4D

Watershed Response to Partial Area Applications of Simulated Rainfall,
W76-09467 9-18 2A

LYNCH, P.
Sampling of Oil Spills and Fingerprinting by Infrared Spectroscopy,
W76-10383 9-19 5B

LYON, D. K.
Energy Demand and Water Resource Management: Some Economic Aspects,
W76-03003 9-07 6D

LYONS, T. C.
Water Quality Law in Federal Republic of Germany,
W76-12531 9-23 5G

LYSMER, J.
Pore-Water Pressure Changes During Soil Liquifaction,
W76-13171 9-24 8D

LYSOGOROVA, I. K.
Sanitary-Toxicologic Assessment of Iron Compounds, (In Russian),
W76-11547 9-21 5C

Study of the Effect of Iron on the Human Body and Living Conditions, (In Russian),
W76-09803 9-18 5C

LYSYJ, I.
Water Contamination Detection,
W76-10648 9-20 5A

LYTLE, J. S.
Fate and Effects of Crude Oil on an Estuarine Pond,
W76-00148 9-01 5C

LYTTON, R. L.
Pavement Cracking in West Texas Due to Freeze-Thaw Cycling,
W76-12452 9-23 2C

LYUBIMOVA, S. A.
Sorption of Sr90 by Bottom Sediments of a Freshwater Lake,
W76-06872 9-14 5B

LYUBIMOVA, T. S.
Structure of the Plankton Community of Fish-Rearing Ponds of the Southern Urals, (In Russian),
W76-01700 9-04 8I

LYUKSHYN, V. S.
The Effect of Forest Stands on the Water Content of Rocks of the Loess Cover in the Western Regions of the Northern Black Sea Area, (In Ukranian),
W76-08303 9-16 4A

LYUTSAREV, S. V.
Determination of Total Phosphorus in Suspended Matter of Natural Waters, (In Russian),
W76-02572 9-06 5A

Organic Carbon, Phosphorus and Nitrogen in the Waters of the Sea of Japan, (In Russian),
W76-08313 9-16 5A

LYZENGA, D. R.
Analysis of Cladophora Distribution in Lake Ontario using Remote Sensing,
W76-04589 9-10 5C

Basic Investigations for Remote Sensing of Coastal Areas,
W76-13182 9-24 2L

Basic Investigations for Remote Sensing of Coastal Areas,
W76-13183 9-24 2L

Spectral Reflectance and Radiance Characteristics of Water Pollutants,
W76-13176 9-24 5A

Updating Coastal and Navigational Charts Using ERTS-1 Data,
W76-02042 9-05 7B

MAAGDENBERG, H. J.
In-Plant Hot-Gas Blanching of Vegetables,
W76-04743 9-10 3E

MAALOUF, W. D.
Training and Extension for Effective use of Irrigation Water,
W76-01890 9-04 3F

MAAS, E. V.
Salinity-Ozone Interactive Effects on Alfalfa Yield and Water Relations,
W76-06269 9-13 3C

MAASE, D. L.
Review of Landspreading of Liquid Municipal Sewage Sludge,
W76-02658 9-06 5D

MAC CONNELL, W. P.
The Modified Fernow Frost Gage,
W76-09880 9-18 7B

MAC NISH, R. D.
Digital Model of the Gravel Aquifer, Walla Walla River Basin, Washington and Oregon,
W76-07593 9-15 2F

MACAGNO, E. O.
Effects of Large Thermal Discharges on Ice-Covered Rivers,
W76-03139 9-07 5C

Numerical Prediction of Thermal-Regime of Rivers,
W76-08739 9-16 5B

Thermal Response of Heated Streams, Solution by the Implicit Method,
W76-12685 9-24 5B

MACALADY, D. L.
Chemistry of Halogens in Seawater,
W76-12884 9-24 5A

MACAULAY, HUGH H.
An Economic Evaluation of Water Quality Management Systems,
W76-04514 9-10 5G

MACAULAY, I. D.
Trace Metals in the Waters of the Gulf of St. Lawrence,
W76-06024 9-12 5A

MACDONALD, D. G.
Lab-Proven Fly Ash Process Removes Bleach Effluent Color,
W76-05707 9-12 5D

MACDONALD, H. C.
Trace Element Composition of Stream Sediments, An Integrating Factor for Water Quality,
W76-00377 9-01 5A

MACDONALD, K. B.
Carbon Dioxide Evolution from Virgin and Cultivated Soil as Affected by Management Practices and Climate,
W76-06003 9-12 2G

MACDONALD, L. P.
Experimental Burning of Waste Oil as a Fuel in Cement Manufacture,
W76-04177 9-09 5A

MACDOWALL, F. D. H.
Estimation of the Water Hydration in Wintering Wheat Leaves by Proton Magnetic Resonance,
W76-07226 9-14 2I

MACE, A. C. JR.
Evaulation of Water Quality by Remote Sensing Techniques,
W76-02903 9-06 5A

A Hydronomic Analysis of Forest Management Alternatives for Environmental Quality: A Case Study of Itasca County,
W76-02362 9-05 6B

Water Quality Perception by Users: Can It Supplement Objective Water Quality Measures,
W76-03168 9-07 5G

MACE, G. R.
Granular Media Filtration: A Positive Cost Effective Method to Prepare Wastewaters for Reuse by Removal of Suspended Solids,
W76-11262 9-21 5D

Wastewater Recycle - The Proper Approach to Evaluation of Disposal Versus Reuse,
W76-11263 9-21 5D

MACE, W. O.
Water as a Factor in Energy Resources Development,
W76-05250 9-11 6B

MACEK, K.
Accumulation and Eliminating Studies of Four Detergent Fluorescent Whitening Agents in Bluegill (Lepomis Macrochitus),
W76-00318 9-01 5A

MACEK, K. J.
Chronic Toxicity of Atrazine to Selected Aquatic Invertebrates and Fishes,
W76-10517 9-20 5C

Chronic Toxicity of Lindane to Selected Aquatic Invertebrates and Fishes,
W76-10895 9-20 5C

MACEK, K. S.
Fluorescent Whitening Agents: Acute Fish Toxicity and Accumulation Studies,
W76-07713 9-15 5C

MACEVICZ, C. C.
Method for Cleaning Semipermeable Membranes,
W76-07446 9-14 3A

MACGREGOR, J. D.
Rates Must Be Fair,
W76-06629 9-13 6C

MACGREGOR, J. S.
DDT and its Metabolites in the Sediments off Southern California,
W76-08436 9-16 5C

MACHEMEHL, J. L.
River Delta Computer Simulation Model (Simudelt),
W76-09954 9-18 2L

MACHIDA, M.
Computer Control of Sewage and Rain Water Pumps at Sewage Treatment Plant (Gesuishorijo no osui, amamizu ponpu no keisanki seigyo),
W76-09215 9-17 8C

Electric Equipment for Mukogawa Sewage Treatment Plant, Hyogo Prefecture (Hyogoken mukogawa shorijo no denki setsubi),
W76-09000 9-17 5D

MACINKO, G.
The Columbia Basin Project Reappraised,
W76-05750 9-12 4A

MACK, A. R.
Affine Transformations from Aerial Photos to Computer Compatible Tapes,
W76-02055 9-05 7C

MACK, D.
The Development of a Simple Waste Treatment System for U.S. Naval Vessels,
W76-10256 9-19 5D

MACK, E. J.
The Life Cycle of California Coastal Fog Onshore,
W76-01493 9-03 2B

MACK, F. K.
Preliminary Analysis of Geohydrologic Data from Test Wells Drilled Near Chalk Point, Prince Georges County, Maryland,
W76-12289 9-23 4B

MACK, R.
Criteria for Evaluation of Social Impacts of Flood Management Alternatives,
W76-05653 9-12 6B

MACKAS, D.
Blooms of Surf-Zone Diatoms Along the Coast of the Olympic Peninsula, Washginton. V. Environmental Conditions Associated with the Blooms (1971 and 1972),
W76-01160 9-03 5C

MACKAY, J. R.
Orientation of Soil Stripes Caused by Needle Ice,
W76-06187 9-13 2C

MACKAY, N. J.
Selenium and Heavy Metals in Black Marlin,
W76-11716 9-22 5C

MACKAY, O. W.
PCB Levels in Clyde Marine Sediments and Fauna,
W76-11589 9-21 5B

MACKAY, R. J.
The Impact of Large Temporary Rate Change on Residential Water Use,
W76-07738 9-15 6

MACKENZIE, A. J.
High Rate Sprinkling of a Low Intake Soil,
W76-01069 9-03 3

MACKIE, C. D.
Groundwater Geophysics in South Africa,
W76-13027 9-24 4

MACKLIN, W. C.
The Interpretation of the Crystalline and A
Bubble Structures of Hail Stones,
W76-06167 9-13 2

MACKRLE, S.
Apparatus for Biological and Chemical Purif
cation of Water by Agglomeration,
W76-12401 9-23 5

MACKRLE, V.
Apparatus for Biological and Chemical Purif
cation of Water by Agglomeration,
W76-12401 9-23 5

MACMILLAN, J. A.
A Dynamic Regional Model for Evaluatin
Resource Development Programs,
W76-12520 9-23 4

MACNAUGHTON, M. G.
The Evaporation and Degradation of N-Nitros
Dimethyl Amine in Aqueous Solutions,
W76-12852 9-24 5

MACON, J. A.
Use, Continued Use, and Reuse of Bot
Process and Waste Waters in Poultr
Processing Operations,
W76-08299 9-16 3

Water and Waste Management in Poultr
Processing,
W76-08428 9-16 3

MACPHEE, C.
An Evaluation of Squoxin on Insect Drift,
W76-04206 9-09 5

MADDAUS, W. O.
Development and Application of a Wate
Resource Allocation Model,
W76-13168 9-24 5

Treatment of Combined Sewer Overflows b
Dissolved Air Flotation,
W76-02074 9-05 5

MADDEN, J. M.
Pollution Potential of Runoff from Livestoc
Feeding Operations,
W76-10531 9-20 5

MADDEX, R. L.
Evaluation of Dairy, Beef and Swine Wast
Handling Systems,
W76-07171 9-14 5

MADDING, R. P.
A Comparison of Aerial Infra-Red and In-Sit
Thermal Plume Measurement Techniques,
W76-08860 9-17 5

A Comparison of Aerial Infrared and Boa
Oriented Thermal Plume Measuremen
Techniques,
W76-12773 9-24 5

omparison of Thermal Scanning and In Situ echniques for Monitoring Thermal ischarges,
/76-05156 9-11 5B

DDOCK, B. G.
he Acute Toxicity of Dissolved Elemental hosphorus to Cod (Gadus Morhua),
/76-08450 9-16 5C

DDOCK, T.
urface Water and Ground Water Interaction henomena in Planning Models,
/76-12553 9-23 4B

DDOCK, T. III.
ost Functions for Additional Ground Water evelopment,
/76-10194 9-19 4B

ydrologic Semantics,
/76-05414 9-11 2A

DDOCK, T. JR.
quations for Resistance to Flow and Sediment ransport in Alluvial Channels,
/76-05844 9-12 2J

Primer on Floodplain Dynamics,
/76-09831 9-18 2E

DDOX, D. M.
quatic Plant Control Program for Alligator Veed and Water Hyacinth in Texas,
/76-11147 9-21 5G

DDOX, J. JR.
lethod for Controlling Scale,
/76-10469 9-19 5G

DDUKURI, C. S.
urbulent Kinetic Energy Balance Near the rozen Surface of Eastern Lake Ontario,
/76-11298 9-21 2H

DDY, D. V.
hysical and Climatic Characteristics Along ansas Streams,
/76-06450 9-13 7C

rogrammable Calculators: Modern Instruents for Analyzing Hydrologic Data,
/76-11416 9-21 7B

DERN, J. P.
Vater Treatment Ion-Exchange Vessel,
/76-02855 9-06 5D

DEWELL, C. E.
ptimum Dilution of Swine Wastes for Growth f Lemna Minor L. and Euglena Sp,
/76-07191 9-14 5D

DGWICK, H. A. I.
he Influence of Moisture Stress on iriodendron Tulipifera L. Seedlings,
/76-07259 9-14 2I

DIN, L. P.
Inderwater Observations of Gelatinous ooplankton: Sampling Problems, Feeding iology, Land Behavior,
/76-09598 9-18 5C

DISON, D. M.
xperimental Confirmation of the Olfactory ypothesis with Homing, Artificially Imprinted oho Salmon (Oncorhynchus Kisutch),
/76-08439 9-16 5C

MADOLE, R. F.
Bog Stratigraphy, Radiocarbon Dates, and Pinedale to Holocene Glacial History in the Front Range, Colorado,
W76-11071 9-20 2C

MADORSKY, M. G.
Navigable Water, A Definition: All Bent Out Of Shape,
W76-12039 9-22 6E

MADRAS, S.
A Simulation Model for Long-Term Forecasting of Waste Loadings from Population, Land Use, and Economic Activities in the Great Lakes Basin,
W76-11320 9-21 5B

MADRECKA, A.
Water Ozonation Plant at Wroclaw (Stacja ozonowania wode we Wroclawiu),
W76-03674 9-08 5F

MADSEN, G. E.
Social Impacts and Methodological Perspectives from a Post Audit Analysis of Water Resource Development,
W76-05360 9-11 6B

MADSEN, M. J.
Sample Tracking Data Management System,
W76-11611 9-21 7C

MADSEN, O. B. G.
Some Aspects of Modelling the Long-Term Behaviour of Aquatic Ecosystems,
W76-11883 9-22 5B

MADSEN, O. S.
Energy Dissipation on a Rough Slope,
W76-09582 9-18 8B

Wave Motions in an Offshore Harbor,
W76-09947 9-18 8B

MAECHLING, C.
Freedom of Scientific Research: Stepchile of the Oceans,
W76-02094 9-05 6E

MAEDA, H.
Studies on Electrolytic Treatment of Waste Water (I): Regeneration of Photographic Bleach Solution, (In Japanese),
W76-01662 9-04 5D

MAEDA, T.
Void Changes in Allophane Soils Determining Water Retention and Transmission,
W76-00559 9-02 2G

MAEDA, Y.
Treatment of Silk Scouring Waste Water by Activated Sludge Process (Ken seiren haisui no kassei odei shori),
W76-04067 9-09 5D

MAEKAWA, M.
Desalting Recovery Facility for Cold Rolling Mill Waste Water (Reikan atsuen kojo sogo haisui no datsuen kaishu setsubi ni tsuite),
W76-04774 9-10 3E

MAES, M.
Industrial Oils, Recovery or Disposal. (Les Huilles Industrielles, Recuperation ou Elimination.),
W76-05280 9-11 5D

MAESTRINI, S. Y.
The Importance of Inhibiting Substances in the Control of Algal and Bacterial Populations of Marine Plankton, (In French),
W76-11542 9-21 5G

MAGARA, Y.
Biochemical and Physical Properties of an Activated Sludge on Settling Characteristics,
W76-10037 9-19 5D

MAGARITZ, M.
Carbon-13 Enriched Carbonate in Interstitial Waters of Lake Kinneret Sediments,
W76-12140 9-22 5C

MAGDOFF, F. R.
Nutrient Mass Balance in Columns Representing Fill Systems for Disposal of Septic Tank Effluents,
W76-09164 9-17 5E

MAGE, D. T.
An Improved Model for Analysis of Air and Water Pollution Data,
W76-11606 9-21 5B

MAGEE, B. H.
Influence of Organic Nitrogen on Soil Nitrogen, Nodulation, Nitrogen Fixation, and Yield of Soybeans,
W76-00157 9-01 3F

MAGETTE, W. L.
Estimating Selected Parameters for the Kentucky Watershed Model from Watershed Characteristics,
W76-09852 9-18 2A

MAGGIORE, C. J.
X-Ray Diffraction and Electron Beam Analysis of Asbestiform Minerals in Lake Superior Waters,
W76-11248 9-21 5A

MAGLICOVA, A.
Residual Organic Matter in Activated Sludge Process Effluents VIII. Separation by Molecular Weights on Sephadex Columns (Zbytkove latky po aktivacnim procesu VIII. Deleni podle molekulovych hmotnosti na sephadexech),
W76-10514 9-20 5A

MAGNIN, E.
Reproduction of the Banded Killifish: Fundulus Diaphanus Diaphanus (Le Sueur), (In French),
W76-07937 9-15 2H

MAGNUSON, J. J.
Behavioural Thermoregulation and Activity Patterns in the Green Sunfish, Lepomis Cyanellus,
W76-10883 9-20 5C

Lake Wingra, 1837-1973: A Case History of Human Impact,
W76-05997 9-12 5C

Low Thermal Responsiveness in the Bluegill, Lepomis Macrochirus,
W76-10369 9-19 5C

MAGNUSON, L. M.
Quantitative Water Quality with ERTS-1,
W76-02052 9-05 5A

MAGOMEDOV, A. K.
Characteristics of Hydrological and Hydrochemical Conditions of Arakum Water Bodies, (In Russian),
W76-04532 9-10 5C

MAGOMEDOV, A. K.

Phytoplankton of Some Ponds and Lakes of Dagestan ASSR, (In Russian),
W76-07311 9-14 5C

MAGON, G.
Adige and Po: Chemical Analyses and Varius Water Examinations Carried out at Polesine in 1974 (Adige E Po: Analise Chimiche E Indagine Varie Sulle Acque Effecttuats in Polesine Durante L'Anno 1974),
W76-02195 9-05 5A

MAGUE, T. H.
Leucothrix: Absence of Demonstrable Fixation of N2,
W76-08953 9-17 5C

MAGUET, G. J.
Recent Developments in Sewage Treatment and Equipment,
W76-12662 9-23 5D

MAGUIRE, R. J.
Effects of Ice and Snow Cover on Transmission of Light in Lakes,
W76-04179 9-09 2C

Light Transmission Through Snow and Ice,
W76-04178 9-09 2C

MAGUIRE, W. F.
Reuse Sour Water Stripper Bottoms,
W76-02582 9-06 5D

MAHAFFEY, E. J.
A Spectrophotometric Method for the Determination of Rhenium in Geologic Materials,
W76-02896 9-06 5A

MAHAFFY, M. A.
Continental Ice Sheets: Conditions for Growth,
W76-04100 9-09 2C

MAHAN, D. C.
The Relationship Between Watershed Use and Stream Water Quality,
W76-08282 9-16 4D

MAHANNAH, C. N.
Upper Carson River Water Study, Water Year 1973,
W76-00006 9-01 2D

MAHANTY, H. K.
A Study on the Effects of Polychlorinated Biphenyl (Aroclor 1242) on an Aquatic Plant-Spirodela Oligorhiza (Kurz) Helm,
W76-04914 9-10 5C

MAHDY, M. S.
Viral Contamination of the Water Environment, an Underestimated Problem,
W76-11646 9-22 5C

MAHER, J. B.
Recovery System for Oxygen From Waste Water Oxygenation,
W76-01536 9-04 5D

MAHIDA, V. U.
Multi-Purpose Combined Sewer Overflow Treatment Facility, Mount Clemens, Michigan,
W76-01874 9-04 5D

MAHLER, R. J.
Yield and Heavy Metal Content of Food Crops Grown on Soils Amended with Sewage Sludge,
W76-11610 9-21 5D

MAHLOCH, J. L.
Treating Dye and Finishing Wastes,
W76-04789 9-10 5D

MAHMOOD, K.
Modeling Sediment Transport in Hydraulic Structures,
W76-09975 9-18 2J

MAHONEY, J.
Pyramid Lake: Zooplankton Distribution and Blooms of the Blue Green Alga, Nodularia spumigena,
W76-08374 9-16 5C

MAHONEY, J. B.
A Fin Rot Disease of Marine and Euryhaline Fishes in the New York Bight,
W76-10524 9-20 5C

MAHOOD, H. W.
Chemical Characteristics, Acute Toxicity and Detoxification of Foam in Two Aerated Lagoons,
W76-09295 9-17 5C

MAIBORODA, V. D.
On the Mechanism of Gamma-Radiolysis of Effluents (K mekhanizmu gamma-radioliza stochnykh vod),
W76-12508 9-23 5D

MAIDMENT, D. R.
Computer Time and Memory Requirements for DP and DDDP in Water Resource Systems Analysis,
W76-04933 9-10 6A

A Scheme for Stochastic State Variable Water Resources Systems Optimization,
W76-01685 9-04 2E

MAIER, C. R.
Pollution of Surface Irrigation Waters by Plant Pathogenic Organisms,
W76-08230 9-16 5B

MAIER, D.
The Effect of Ozone on the Dissolved Organic Substances in the Water of Lake Constance (Wirkung Von Ozon Auf Die Geloesten Organischen Substanzen Im Bodenseewasser),
W76-01760 9-04 5C

An Improved Method for Determination of the Chemical Oxygen Demand with Potassium Dichromate (Cod-Method) (Eine Verbesserte Methode zur Bestimmung des Chemischen Sauerstoffbedarfs mit Kaliumdichromat) (Cod-Methode),
W76-08256 9-16 5A

MAIER, W. J.
Carbon Contents of Surface and Underground Waters in South-Central Minnesota,
W76-12202 9-23 5A

MAIL, I. P.
Separation of Emulsified Liquids,
W76-03507 9-08 5G

MAINKA, C. M.
Incenerator for Raw Sewage,
W76-00580 9-02 5E

MAIR, D. M.
Softening and Coagulation Sludge-Disposal for a Surface Water Supply,
W76-10252 9-19 5F

MAITLAND, A. J.
Water Rate Reformulation,
W76-01605 9-04 6C

MAJOR, D. C.
North Atlantic Regional Water Resour Study,
W76-00072 9-01

MAJOR, T. J.
Water-Level Records for Colorado, 1971-75,
W76-04394 9-09

Water-Level Records for the Northern H Plains of Colorado, 1972-76,
W76-05420 9-11

MAJOR, W. D.
Biometer Measurement of Activated Sludge Westvaco Corporation,
W76-11375 9-21

MAJORS, K. R.
Animal Waste Management--Comments on National Situation,
W76-11033 9-20

MAKARENKO, E. V.
Harmlessness of Grain Grown on Sewa Farms, (In Russian),
W76-12645 9-23

MAKDISI, F. I.
Properties of Soil in the San Fernando Hydra lic Fill Dams,
W76-07219 9-14

The Slides in the San Fernando Dams Duri the Earthquake of February 9, 1971,
W76-07220 9-14

MAKEEV, A. N.
Metabolism of Single-Carbon Compounds the Biological Purification of Waste Wate (Metabolizm odnouglerodnykh soedinenii protsesse biologicheskoi ochistki stochny vod),
W76-02514 9-06

MAKEEVA, E. N.
Metabolism of Single-Carbon Compounds the Biological Purification of Waste Wate (Metabolizm odnouglerodnykh soedinenii protsesse biologicheskoi ochistki stochny vod),
W76-02514 9-06

MAKER, H. S.
The Effect of Lead on Mouse Brain Develo ment,
W76-09038 9-17

MAKHON'KO, K. P.
On Sr90 Migration in Land Fresh Water,
W76-06864 9-14

MAKI, A. W.
Comparative Toxicity of Larval Lampricid (TFM: 3-Trifluoromethyl-4-Nitrophenol) T Selected Benthic Macroinvertebrates,
W76-02330 9-05

MAKKINK, G. F.
Water Economy of a Fictive Crop,
W76-07402 9-14

MAKLER, S. J.
Washington's Waterfront Lesson,
W76-01596 9-04

MAKOTO, N.
Utilization of Petroleum Yeast in Fish Feed: I Effect on Growth and Body Lipids of Rainbo Trout Fingerlings Raised in Cages, (I Japanese),
W76-12960 9-24

AKOVSKY, A. L.
Liability for Marine Environment Pollution Damage in Contemporary International Sea Law,
W76-12011 9-22 5G

AKRIDES, A. C.
Secondary Impacts of Transportation and Wastewater Investments: Research Results,
W76-02757 9-06 5C

AKSIMOV, V. N.
Content of Heterotrophic Microorganisms in Water of Lake Baikal, (In Russian),
W76-07302 9-14 5C

AKSIMOV, V. V.
Collector-Analyzer for Continuous Automatic Recording of the Temperature, pH, and Electric Conductivity of Atmospheric Precipitation,
W76-04960 9-10 2B

AKSIMOVA, E. A.
Content of Heterotrophic Microorganisms in Water of Lake Baikal, (In Russian),
W76-07302 9-14 5C

AKSUNOV, V. A.
Marinka Schizothorax Intermedius Mcclelland of the Kattai Water Reservoir (Tadzhikistan), (In Russian),
W76-00278 9-01 2I

AL'KOVA, I. S.
Joint Biological Purification of Domestic and Industrial Waste Waters (Sovmestnaya biologicheskaya ochistka khozyaystvennobytovkh i proizvodstvennykh stochnykh vod),
W76-07515 9-15 5D

ALAMENE, B. A.
Activity of Oil Oxidizing Bacteria Isolated from the Water of Lagoon of Kurski Zaliv and the Baltic Sea Coast, (In Russian),
W76-07294 9-14 5C

ALBROUGH, L. P.
Temporal Changes in the Offshore Islands of Mississippi,
W76-11905 9-22 2J

ALCOLM, C. V.
Plant Collection for Saltland Revegetation and Soil Conservation,
W76-09071 9-17 2I

ALCOLM, W. R.
Impact and Reactant Step-by-Step Rotary Sprinkler Head,
W76-03504 9-08 3F

ALE, R.
A Dispersion Curve Study of Model Dredge Spoil Basins,
W76-04321 9-09 5B

ALES, R. M.
Discussion (of, 'Interdisciplinary Studies of Large Reservoirs in Africa,' by G. F. White),
W76-00066 9-01 4A

ALESZEWSKA, J.
Limnological Character of Experimental Reservoirs Treated with Tritox 30% (DDT, DMDT, GAMMA HCH),
W76-06012 9-12 5C

ALETIC, J. T.
Salinity Control and Federal Water Quality Act,
W76-00617 9-02 5G

Salinity Control Planning in the Colorado River System,
W76-02230 9-05 3A

MALHOTRA, S. K.
Design, Operation, and Monitoring of Municipal Irrigation Systems,
W76-05783 9-12 5E

MALILA, M. A.
Advanced Processing and Information Extracting Techniques Applied to ERTS-1 MSS Data,
W76-02057 9-05 7C

MALINA, J. F. JR.
Poliovirus Inactivation by Activated Sludge,
W76-00256 9-01 5D

MALINOWSKI, E. R.
A Study of Aqueous Solutions by Nuclear Magnetic Resonance,
W76-04671 9-10 1B

MALISCH, W. R.
Use of Domestic Waste Glass for Urban Paving, Summary Report,
W76-02657 9-06 5E

MALK, J. M.
Economic Analysis of Effluent Guidelines: Fertilizer Industry,
W76-09777 9-18 5G

MALLATT, R. C.
Chemical Coagulation/Mixed Media Filtration of Aerated Lagoon Effluent,
W76-02763 9-06 5D

Optimize the Effluent System - Part 4: Approach to Chemical Treatment,
W76-12667 9-23 5D

MALLET, M. N.
Comparative Study of Poliovirus Concentration Methods From Water (Essais Comparatives De Methodes De Concentration Du Poliovirus aPartir Des Eaux),
W76-01444 9-03 5D

Disinfection of Urban Sewage Sludge (La Desinfection Des Bous Residuaires Urbaines),
W76-09007 9-17 5D

MALLICK, S.
Effect of Tillage on Soil Structure and Plant Growth Under Rain-Fed Conditions,
W76-10487 9-19 2G

MALLORY, C. W.
Containment Area Facility Concepts for Dredged Material Separation, Drying, and Rehandling,
W76-01220 9-03 2G

MALMBERG, G. T.
Reclamation by Tubewell Drainage in Rechna Doab and Adjacent Areas, Punjab Region, Pakistan,
W76-02484 9-05 4B

MALME, L.
Phytosociological Studies of Aquatic and Marsh Vegetation in More og Romsdal, Western Norway, (In Norwegian),
W76-06767 9-13 2L

MALNATI, R. L.
Use of High-Power Electron Beam Radiation for the Treatment of Municipal and Industrial Wastes,
W76-09537 9-18 5D

MALO, D. D.
In Situ Hydraulic Conductivity at Four Hillslope Locations in a Closed Drainage System,
W76-00023 9-01 2G

MALONE, H. K.
The Evaluation of Microbial Pathogens in Sewage and Sewage-Grown Fish,
W76-03545 9-08 5C

MALONE, R. F.
The Effects of Media Modifications upon Selenastrum Capricornutum in Batch Cultures,
W76-06706 9-13 5C

MALONE, T. C.
The Environmental Impact of Deep-Sea Mining,
W76-10602 9-20 5G

MALONEY, F. E.
A Sound Water Plan for South Florida Implementation of the 1972 Water Resources Act,
W76-10742 9-20 6E

The Use and Legal Significance of the Mean High Water Line in Coastal Boundary Mapping,
W76-04355 9-09 6E

MALONEY, T. E.
Utilization of Algal Assays to Assess the Effects of Municipal, Industrial and Agricultural Wastewater Effluents upon Phytoplankton Production in the Snake River System,
W76-00342 9-01 5A

Utilization of Algal Assays to Assess the Effects of Municipal, Industrial, and Agricultural Wastewater Effluents Upon Phytoplankton Production in the Snake River System,
W76-05472 9-11 5C

MALTZ, A.
Water Economy and Drinking Regime of the Bedouin Goat,
W76-13125 9-24 3C

MALUEG, K. W.
A Six-Year Water, Phosphorus, and Nitrogen Budget for Shagawa Lake, Minnesota,
W76-08674 9-16 5C

MALY, J.
Nitrate Determination With Indigo Carmine,
W76-00021 9-01 5A

Suppression of Iron (III) Interference in the Determination of Iron (II) in Water by the 1,10-Phenanthroline Method,
W76-03169 9-07 5A

MALYGINA, T. P.
Effect of Ammonium Lignosulfonate on Soil Microorganisms (O vliyanii lignosul'fonata ammoniya na pochvennye mikroorganizmy),
W76-02464 9-05 5C

MAMEDOV, A. A.
A Combined Method for the Purification of Fluorine from Industrial Waste Waters Generated by a Superphosphate Producing Plant (Kombinirovannyy metod ochistki ftora iz proizvodstvennykh stochnykh vod superfosfatnogo zavoda),
W76-02305 9-05 5D

Sorption Method for the Purification of Petroleum Containing Waste Waters (Sorbtsionnye netody ochistki neftesoderzhashchikh stochnykh vod),
W76-05489 9-11 5D

MAMETSE, M. N.
Secular Changes in South Africa Rainfall: 1880 to 1972,
W76-03367 9-07 2B

MAMOLITO, G. E.
Differences in Low PH Tolerance Among Strains of Brook Trout (Salvelinus Fontinalis),
W76-10074 9-19 5C

MAMURO, T.
Isotopic Ratios of Radioruthenium and Radiocerium in Rain Water at Osaka in Relation to Nuclear Explosions During the Period of Late 1969 to 1972,
W76-07961 9-15 5A

MAN'KOVSKAYA-TOLSTAYA, L. M.
Possible Physiological Methods of Diagnosing the Irrigation Time of Peach Trees, (In Russian),
W76-07989 9-15 3F

MANAHAN, S. E.
Cleaning Coal With Coal: Coal Humic Acids for Removal of Acid, Iron, Heavy Metals, and Organic Pollutants Associated With Use of Coal as a Fuel,
W76-01688 9-04 5D

Ion-Selective Electrodes in Environmental Research,
W76-03499 9-07 5A

MANAKOV, K. N.
Water Elution of Organic Matter in the Northern Taiga Forests of the Kola Peninsula,
W76-05168 9-11 2K

MANCHANDA, H. R.
Distribution of Different Qualities of Underground Waters in Rewari Tehsil of Haryana State,
W76-05432 9-11 3C

MANCHANDA, M. L.
Distribution of Different Qualities of Underground Waters in Rewari Tehsil of Haryana State,
W76-05432 9-11 3C

MANCY, K. H.
Analytical Chemistry in Water Pollution Control,
W76-09221 9-17 5A

MANDEL, S.
The Over-Exploitation of Groundwater Resources in Dry Regions,
W76-09479 9-18 4B

MANDELLI, E. F.
The Effects of Desalination Brines on Crassostrea Virginica (Gmelin),
W76-03414 9-07 5C

MANDEV, A.
Relationship of Heavy Rainfall to Soil Erosion in View of its Forecasting, (In Bulgarian),
W76-09807 9-18 2J

MANDT, M. G.
Waste Treatment System,
W76-12496 9-23 5D

MANEA, M.
Purification of Waste Waters Contaminated With Methanol (Epurarea Apelor Reziduale Impurificate cu Metanol),
W76-02585 9-06 5D

MANGAN, G. F. JR.
ASCE Urban Water Resources Research Program,
W76-02939 9-06 2A

MANGARELLA, P. A.
A Laboratory Investigation of the Effect of Surface Films on Wind Induced Reaeration,
W76-03100 9-07 5B

MANGES, H. L.
Disposal of Beef Feedlot Wastes onto Land,
W76-07184 9-14 5D

Experience with a Spray-Runoff System for Treating Beef Cattle Feedlot Runoff.
W76-01026 9-03 5D

Performance of Feedlot Runoff Control Facilities in Kansas,
W76-11058 9-20 5D

Samplers for Monitoring Runoff Waters,
W76-10550 9-20 5A

Samplers for Monitoring Runoff Waters,
W76-13006 9-24 5A

Summary of Kansas' Experience with Liquid Waste Spreading,
W76-03988 9-08 5E

Treatment and Ultimate Disposal of Cattle Feedlot Wastes,
W76-01876 9-04 5D

Use of Cattle Feedlot Runoff in Crop Production,
W76-03559 9-08 3C

MANGOLD, E. C.
Monitoring the Environment,
W76-00361 9-01 5A

Spectroscopic Instruments, Satellites and Computers: New Directions for Monitoring the Environment,
W76-00315 9-01 7B

MANGONE, G. J.
Decisions for Delaware: Sea Grant Looks at Legal Aspects of OCS Development,
W76-06485 9-13 6E

MANHEIM, F. T.
Interstitial Water Studies on Small Core Samples. Leg 15,
W76-01581 9-04 2J

Interstitial Water Studies on Small Core Samples, Leg 22,
W76-00665 9-02 2L

MANI, V. V. S.
Evaluation of the Aquifer Characteristics of the Basaltic Terrain of Maharashtra in India,
W76-02970 9-06 2F

MANIAK, U.
The Uncertainties in Search of Design Precipitations as Input Data for Rainfall-Runoff-Models (Die Problematik bei der Ermittlung von massgeblichen Niederschlaegen als Eingangsdaten fuer Niederschlag-Abfluss-Modele),
W76-00799 9-02 2A

MANICKAM, T. S.
Biological Treatment of Waste with High Ash Content Using a Hydrolytically Assisted Extended Aeration Process,
W76-10231 9-19 5D

MANKIN, J. B.
Simulation of Evapotranspiration and Draina
from Mature and Clear-Cut Deciduous Fore
and Young Pine Plantation,
W76-02426 9-05 2

MANLEY, W.
Automated Fluoridation Using a Selective I
Electrode,
W76-11251 9-21 5

MANN, D. E.
Conflict and Coalition: Political Variables U
derlying Water Resource Development in t
Upper Colorado River Basin,
W76-07109 9-14 4

Legal-Political History of Water Resour
Development in the Upper Colorado Riv
Basin,
W76-02669 9-06 6

MANN, D. R.
Double-Tracer Studies to Optimize Conditio
for the Radiochemical Separation of Plutoniu
from Large Seawater Samples,
W76-08610 9-16 5

A Procedure for Analysis of Amercium
Marine Environmental Samples,
W76-08611 9-16 5

MANN, J. S.
Zinc Nutrition of Rice in Relation to Iron a
Manganese Uptake Under Different Wat
Regimes,
W76-08974 9-17 3

MANN, K. H.
Sedimentation of Organic Matter in St. Ma
garet's Bay, Nova Scotia,
W76-01311 9-03 2

MANN, L. A.
Radiation Treatment Method and Apparatus f
Decontamination of Polluted Fluid,
W76-01136 9-03 5

MANN, L. J.
Ground-Water Resources and Water Use
Southern Navajo County, Arizona,
W76-11410 9-21 2

MANN, L. K.
Environmental Effects of Chromium and Zi
in Cooling-Water Drift,
W76-04822 9-10 5

MANNERING, J. V.
Animal Waste and Nitrate Movement Throu
Soil,
W76-12362 9-23 5

MANNING, F. S.
Disposal of Soluble Inorganic Salts,
W76-06156 9-13 5

MANNING, J. A. JR.
Desalination Materials Manual,
W76-06801 9-14 3

Nonmetallics - Their Performance in t
Desalination Environment,
W76-03191 9-07 3

Relationships of Corrosion Rates to Wat
Chemistry in the Freeport Test Bed Plant,
W76-03192 9-07 3

MANNING, L. J.
Development of Water Quality Management I
dices,
W76-07152 9-14 5

NOLELI, D.
ome Ecologic Considerations on the Flora and una of the Southern Part of the Musura Bay he Delta of the Danube into the Black Sea), n French),
76-02909 9-06 2L

NOOCH, C. S. III.
ood Habits of Yearling and Adult Striped ass, Morone Saxatilis (Walbaum), from Al-emarle Sound, North Carolina,
76-11522 9-21 2I

NSELL, R. S.
nalytical Solution of the Equation for Trans-ort of Reactive Solutes Through Soils,
76-12450 9-23 2G

ydraulic Conductivity Calculations for Un-turated Steady-State and Transient-State low in Sand,
76-02932 9-06 2G

NSFELD, A.
adioactivity in the Hydrosphere Recent rends in Czech Studies,
76-08627 9-16 5A

NSFIELD, T. A.
etection and Preliminary Identification of En-ogenous Antitranspirants in Water-Stressed orghum Plants,
76-06026 9-12 2I

NSUE, L. J.
ffects of Land use and Retention Practices on ediment Yields in the Stony Brook Basin, lew Jersey,
76-05418 9-11 4C

NSUKHANI, S.
apacitance Sensor for Soil Moisture Measure-ent,
76-12457 9-23 2G

NTHE, R. M.
eclamation of Gas Turbine Waste Heat for ludge Drying,
76-11268 9-21 5D

NTOURA, R. F. C.
he Use of Gel Filtration in the Study of Metal inding by Humic Acids and Related Com-ounds,
76-03301 9-07 5A

NVILLE, J. F.
cute Toxicity to Juvenile Rainbow Trout Salmo Gairdneri) of Naturally Occurring In-ect Juvenile Hormone Analogues,
76-09282 9-17 5C

R, B. W.
ystems Approach to River Basin and Inter-asin Development,
76-05512 9-12 4A

RA, M. J.
stimated Costs of Mechanical Control of Water Hyacinths,
76-11141 9-21 5G

RASOVIC, A.
Determination of Water Requirements in Irriga-ion Projects,
76-01881 9-04 3F

RATHE, V. B.
Hydrogen Peroxide as a Source of Oxygen Supply in the Transport of Fish Fry,
76-01931 9-04 5G

MARCAN, E.
Diatom Community Response to Variations in Effluent Concentration,
W76-08835 9-17 5C

MARCH, F. A.
Development of a High Seas Oil Recovery System, Appendix II,
W76-01835 9-04 5G

Development of a High Seas Oil Recovery System, Phase II, Appendix I. Design Studies and Specifications,
W76-01225 9-03 5G

Development of a High Seas Oil Recovery System, Phase II, Appendix II. Materials and Component Tests,
W76-01226 9-03 5G

Development of a High Seas Oil Recovery System, Phase II, Appendix III. System Tests,
W76-01227 9-03 5G

MARCHAL, E.
Hydrocarbon Residues in Ivory Coast Waters,
W76-12579 9-23 5C

MARCHAND, A.
The Sewage Sludge + Rubbish + Cinders Equation Solved at the New Urban Waste Treatment Plant in Dieppe (L'Equation Boues D'Egout + Ordures + Machefer Est Resole Dans Les Nouvelles Installations de Traitement des Dechets Urbain Realisees a Deippe),
W76-01056 9-03 5D

MARCHAND, M.
Experimental Study of the Purification of Effluents from the Manufacture of Bleached Bisulfite Pulp by Aeration Lagooning (Etude experimentale de l'epuration par lagunage aere de liqueurs bisulfitiques de pate de cellulose blanchie),
W76-05718 9-12 5D

MARCHAND. P. J.
Cold Period Plant-Water Relations Affecting Consumptive Use of Soil Water and Waste Water Reuse,
W76-04802 9-10 2D

MARCHANT, J. W.
Effect of Fallout of Windbrone Zinc, Lead, Copper and Cadmium from a Fuming Kiln on Soil Geochemical Prospecting at Berg Aukas, South West Africa,
W76-03302 9-07 5B

MARCHANT, W. N.
Method for Removing Soluble Selenium from Acidic Waste Water,
W76-05986 9-12 5D

MARCHETTI, R.
Prediction of the Effects of the Floodwater of the Olona River in Ticino (Previsioni Sugli Effetti Della Immissions Delle Acque Di Piene Dell' Olona in Ticino),
W76-01447 9-03 4A

MARCHFELDER, R.
Chlorine Dioxide Pulp Bleaching System,
W76-07638 9-15 5D

MARCHYULENENE, D. P.
Uptake of Sr90 by Organisms of Gammarus Sp and Chironomus F. L. Plumosus L.,
W76-06881 9-14 5C

MARCHYULENENE, Y. P.
The Role of Aquatic Plants in the Migration of Sr90 in Some Water Reservoirs of the Lithuanian SSR,
W76-06868 9-14 5B

MARCIAK, Z.
Influence of Mineral Fertilization of Lakes on Fish Growth,
W76-08799 9-17 5C

MARCUSE, W.
Coupled Energy System-Economic Models,
W76-09605 9-18 6A

MARCY, B. C. JR.
Entrainment of Organisms at Power Plants, with Emphasis on Fishes - An Overview,
W76-07492 9-15 5C

Vulnerability and Survival of Young Connecticut River Fish Entrained at a Nuclear Power Plant,
W76-08656 9-16 8I

MAREI, A. N.
The Principles of Substantiating Permissible Concentrations of Radioactive Substances in Freshwater Bodies, (In Russian),
W76-07275 9-14 5B

MAREI, S. M.
A Hele-Shaw Analog Study of the Seepage of Groundwater Resting on a Sloping Bed,
W76-00025 9-01 2F

MARELLI, H. J.
Physical-Chemical Composition of Eroded Soil,
W76-13010 9-24 2J

MARENKIN, F. S.
Treatment Plants for Removing Helminths from Sewage Before Its Use on Cultivated Pastures, (In Russian),
W76-06795 9-13 5D

MARESCA, J. W JR.
Lake and Shore Ice Conditions on Southeastern Lake Michigan in the Vicinity of the Donald C. Cook Nuclear Plant: Winter 1973-74,
W76-05664 9-12 2C

MARFINA, K. G.
Water Regime and Content of Phosphorus Compounds of Acid-Soluble Fraction in Cotton Leaves at Different Water-Supply Levels, (In Russian),
W76-07276 9-14 2I

MARGAT, J.
Groundwater Reservoirs: Physical Bases for Their Use,
W76-00809 9-02 4B

MARGREY, S. L.
A Respirometer Technique for Evaluating the Potential Effects of Rapid Thermal Changes to Small Aquatic Organisms,
W76-01920 9-04 5C

MARIC, K.
Papeteries De L'AA -- Suspended Solids Reduced by 98%, Organic Materials by 74% (Papeteries de l'Aa -- mes reduites de 98%, et MO de 74%),
W76-09341 9-17 5D

MARIC, L. J.
Extraction - Visible Spectrophotometric Method for Determination of Nitrate: Application to Water Analysis,
W76-05717 9-12 5A

MARIE, J. R.
Preliminary Evaluation of the Ground-Water Data Network in Indiana,
W76-11684 9-22 7A

MARINENKO, G.
An Instrument with Internal Calibration for Monitoring Chlorine Residuals in Natural Waters,
W76-10028 9-19 5A

MARINER, R. H.
Chemical Characteristics of the Major Thermal Springs of Montana,
W76-12293 9-23 2K

MARINI, A. C.
Manure Ponds for Minimizing Pollution,
W76-07176 9-14 5D

MARINO, M. A.
Dynamic Response of Aquifer Systems to Localized Recharge,
W76-08520 9-16 2F

A Finite Element Model of Contaminant Movement in Groundwater,
W76-09253 9-17 5B

On the Capacity-Expansion of Desalination Plants and Storage Tanks,
W76-09618 9-18 3A

MARKEL, L. C.
Studies on Operations Planning and Control of Water Distribution Systems,
W76-00506 9-02 6A

MARKFELT, R. S.
Electronic Water Level Indicator,
W76-02246 9-05 7B

MARKHAM, D.
Penetration and Mixing of Heated Discharges into Waterways,
W76-08926 9-17 5B

MARKING, L. L.
Long-Term Effects of 4-Aminopyridine Exposure to Birds and Fish,
W76-03043 9-07 5C

Method for Assessment of Toxicity or Efficacy of Mixtures of Chemicals,
W76-07718 9-15 5C

Toxicity of Natural Pyrethrins and Five Pyrethroids to Fish,
W76-12742 9-24 5C

Toxicity of Potassium Permanganate to Fish and its Effectiveness for Detoxifying Antimycin,
W76-02323 9-05 5C

MARKLAND, R. E.
Regional Planning for Land Disposal of Wastewater,
W76-11706 9-22 5D

MARKLE, R. A.
Environmental Assessment of Future Disposal Methods for Plastics in Municipal Solid Waste,
W76-02659 9-06 5E

MARKOSOVA, R.
Seasonal Dynamics of the Periphytic Macrofauna in Carp Ponds in South-West Bohemia,
W76-12395 9-23 2H

MARKOSYAN, A. G.
Population of Gammarus Lacustris Sars (Crustacea, Amphipoda) in Lake Sevan During its Decrease, (In Russian),
W76-07270 9-14 2H

MARKOV, P. P.
Effect of the Operating Conditions of Recycling Water Supply Systems on the Quality of Reused Waste Waters, (In Russian),
W76-12907 9-24 5C

Re-Use of Municipal Sewage for Purposes of Sanitary Protection of Water Bodies, (In Russian),
W76-02614 9-06 5D

MARKOVIC, V. M.
Radiation Chemical Destruction of Phenol in Oxygenated Aqueous Solutions,
W76-09530 9-18 5D

MARKOVICH, N. YA.
Blood Sucking Diptera of the Vicinity of Abakan (Khakass Autonomous Oblast of Krasnoyarsk Krai): I. The Specific Composition and Breeding Places of Culicidae, (In Russian),
W76-07988 9-15 5G

MARKOW, H. L.
Burning Waters,
W76-10740 9-20 5G

MARKS, B. D.
Investigation of Filtration Characteristics of a Nonwoven Fabric Filter,
W76-12459 9-23 2G

MARKS, D. H.
A Flood Management Model for Urbanizing River Basins,
W76-09737 9-18 4C

Models in Water Resources,
W76-02722 9-06 6A

MARKS, W. D.
Michigan Demonstration Erosion Control Program,
W76-00313 9-01 8B

MARKSTROM, D. C.
Land Application of Sewage Sludge, III. Nitrate Accumulation and Wheat Growth Resulting from Addition of Sewage Sludge and Wood Wastes to Soils,
W76-10841 9-20 5E

MARKUSEN, J. R.
International Externalities and Optimal Tax Structures,
W76-05446 9-11 5G

MARLOW, K. C.
Modern Techniques of Waste Detection,
W76-09685 9-18 5F

MARMER, G. J.
A Comparison of Aerial Infra-Red and In-Situ Thermal Plume Measurement Techniques,
W76-08860 9-17 5A

A Comparison of Aerial Infrared and Boat Oriented Thermal Plume Measurement Techniques,
W76-12773 9-24 5B

Comparison of Thermal Scanning and In Situ Techniques for Monitoring Thermal Discharges,
W76-05156 9-11 5B

MAROSCHAK, E. J.
Septic Tank Tee,
W76-02207 9-05

MARQUARDT, K.
Fresh and Waste Water Treatment by Means
Reverse Osmosis and Ultrafiltration as Co
pared with or as a Supplement to the
Exchange Procedure (Frisch und Abwasser
fereitung mit Umgekehrter Osmose und
trafiltration im Vergleich mit oder zur
grenzung der Ionenaustauschtechnik),
W76-07647 9-15

Solution to the Wastewater Problem in
Sheet-Metal Processing Industry (Loesung
Abwasserproblemen der Blechverarbeiter),
W76-07539 9-15

MARQUARDT, K. P.
Apparatus for the Treatment of Water So
tions by Ion Exchange,
W76-02609 9-06

MARR, G.
Contribution to Optimizing Chemical Precipi
tion in Untreated Waste Water Through C
trol of the Added Flocculant Quantity (Beit
Zur Optimierung Chemischer Faellung
Rohabwasser Durch Die Steuerung Der Fa
mittelzugabemenge),
W76-10246 9-19

MARRIOTT, L. F.
Animal Waste Contribution to Nitrate Nitro
in Soil,
W76-07188 9-14

MARROUF, A. M. S.
Hydrogeology of Glacial Deposits in T
pecanoe County, Indiana, Systematic Devel
ment of Methodologies in Planning Wa
Resources in Medium Size Communities,
W76-01521 9-04

MARRS, R. W.
Analysis of ERTS-1 Imagery of Wyoming
its Application to Evaluation of Wyomin
Natural Resources,
W76-08535 9-16

MARSALEK, J.
Exchange Flow Between Lake Ontario
Hamilton Harbour,
W76-10496 9-19

Sampling Techniques in Urban Runoff Qua
Studies,
W76-10509 9-20

Urban Runoff Modelling,
W76-09033 9-17

MARSCHANG, F.
Bacterial Contents of Sewage from Large
Farms in Romania, (In France),
W76-02401 9-05

MARSDEN, J. R.
The Large-Scale Regional Plant Hypothe
Discriminant Analysis,
W76-05267 9-11

MARSELLA, I.
Chromatographic Determination of C
stituents in Etheral Extracts from Indust
Waste Waters (Del Constituenti L'Estra
Etereo di Acque Industriali),
W76-03998 9-08

MARSH, D. C.
Self-Cleaning Rotary Fluid Filtration System
W76-00587 9-02

RSH, G. A.
ne Intracoastal Waterway: An Ecological Per-ective,
76-11986 9-22 5G

RSH, K.
utonium Radionuclides in the Groundwaters Enewetak Atoll,
76-08607 9-16 5B

RSHALL, D. L.
ariculture: A New Ocean Use,
76-01956 9-04 6E

RSHALL, D. W.
mparative Study of Thermal Techniques for condary Sludge Conditioning,
76-00046 9-01 5D

ffect of Bark Addition Upon the Dewatering operties of Biological Sludges,
76-00043 9-01 5D

nvironmental Protection and the Role of the vil Money Penalty: Some Practical and Legal nsiderations,
76-05188 9-11 6G

ater Quality-Limited Approach to Effluent eduction in Paper Manufacture,
76-00048 9-01 5G

RSHALL, G. R.
abilization Pond Upgrading with Intermittent nd Filters,
76-07050 9-14 5D

RSHALL, H. E.
nalysis of Cost Sharing Programs for Pollu-n Abatement of Municipal Wastewater,
76-02379 9-05 5G

ost Sharing for Recreation: Efficiency and quity': Comment,
76-03535 9-08 6C

st Sharing to Induce Efficient Techniques of bating Wastewater Pollution,
76-11135 9-21 5G

RSHALL, J. G.
terpretation of Geologic and Hydrologic Data m the Ray-1 Well, City of Gallup, McKinley unty, New Mexico,
76-04396 9-09 4B

RSHALL, J. S.
ffect of Municipal Treatment Processes on J-239, PU-240, and CS-137,
76-05890 9-12 5F

utonium Distribution in Lake Michigan Biota,
76-11287 9-21 2H

le of Copepod Fecal Pellets in the Vertical ansport of Freshwater Diatoms,
76-05880 9-12 5C

RSHALL, N.
sing a CHN Analyzer to Reduce Carbonate terference in Particulate Organic Carbon nalyses,
76-09940 9-18 5A

RSHALL, P. E.
ffects of Antitranspirants on Distribution and tilization of Photosynthate in Pinus Resinosa edlings,
76-06792 9-13 2I

RSILY, G. D.
entification of Linear Systems Response by rametric Programing,
76-09575 9-18 2E

MARTELL, J. M.
PCB's in Suburban Watershed, Reston, Va.,
W76-00319 9-01 5B

MARTELLA, T.
Some Factors Influencing Byssus Thread Production in Mytilus Edulis (Mollusca: Bivalves) Linnaeus, 1758,
W76-01903 9-04 5C

MARTENS, D. C.
Effect of Anaerobic Swine Lagoons on Groundwater Quality in High Water Table Soils,
W76-07190 9-14 5B

Pollutant Movement to Ground Water from Swine Waste Lagoons,
W76-03973 9-08 5B

MARTENS, D. W.
Dechlorination of Municipal Sewage Using Sulfur Dioxide,
W76-07715 9-15 5C

Disinfection, Dechlorination and Toxicity to Fish,
W76-11645 9-22 5C

MARTIN, A.
Sand Flathead (Platycephalus Bassensis) an Indicator Species for Mercury Pollution in Tasmanian Waters,
W76-11820 9-22 5B

MARTIN, A. D.
The Effect of Temperature on the Behavior of Marine Fishes, a Comparison Among Atlantic Mackerel, Scomber Scombrus, Bluefish, Pomatomus Saltatrix, and Tautog, Tautoga Onitis,
W76-09507 9-18 5C

MARTIN, A. H.
A Mill, A River, and B(est) P(racticable) T(reatment),
W76-02475 9-05 5D

MARTIN-BOUYER, G.
Application of Factorial Analysis of Principal Components to the Control of Pollution of Surface Waters,
W76-05632 9-12 5B

Evaluation of Surface Water Pollution at Several Points in Relation to Zones of Shellfish Industry in Roadsteads of the Brest Region, (In French),
W76-06150 9-12 5B

MARTIN, C.
Newfoundland's Case on Offshore Minerals: A Brief Outline,
W76-05196 9-11 6E

MARTIN, C. W.
Relationships Between Precipitation, Stream Water Chemistry, and Vegetation for the Bowl, a Forested Watershed in New Hampshire,
W76-03875 9-08 4D

MARTIN, D.
Economics of Great Lakes Bulk Carriers in Winter Operations,
W76-02384 9-05 6B

MARTIN, D. F.
Report on a Biochemical Red Tide Repressive Agent,
W76-07618 9-15 5C

MARTIN, E. E.
Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Basic Fertilizers Chemicals Segment of the Fertilizer Manufacturing Point Source Category,
W76-01213 9-03 5G

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Major Inorganic Products Segment of the Inorganic Chemicals Manufacturing Point Source Category,
W76-01205 9-03 5D

MARTIN, E. J.
Preliminary Design of a Comprehensive Waste Oil Processing Facility,
W76-09894 9-18 5D

MARTIN, F. D.
Thermal Studies on Tropical Marine Ecosystems in Puerto Rico,
W76-08872 9-17 5C

MARTIN, G.
Contribution to the Study of Storm Water in Urban Environment (Contribution A L'etude Des Eaux De Ruissellement En Milieu Urbain),
W76-11637 9-22 5A

MARTIN, H.
Mathematical Model for the Filling Process of the Retention Basin Stoehna (Mathematisches Modell fuer den Fuellvorganic des Hochwasser-Rueckhaltebeckens Stoehna),
W76-01054 9-03 2E

MARTIN, J. H.
Cadmium in Plankton: Elevated Concentrations Off Baja California,
W76-03021 9-07 5B

MARTIN, J. M.
The Effect of Heavy Metals on Laboratory Populations of Two Polychaetes with Comparisons to the Water Quality Conditions and Standards in Southern California Marine Waters,
W76-08451 9-16 5C

Induction of Abnormal Polychaete Larvae by Heavy Metals,
W76-11726 9-22 5C

MARTIN, L.
The Role of Force in the Ocean,
W76-07332 9-14 6E

MARTIN, M. J.
Package Sewage Treatment Process,
W76-09170 9-17 5D

MARTIN, P.
The Unox Process--An Extensive Experiment for the Biological Purification with Pure Oxygen-- Municipal Water Purification Munich (Das Unox Verfahren--Ein Grossversuch Zur Biologischen Abwasserreinigung Mit Reinem Sauerstoff--Stadwaesserung Muenchen),
W76-01436 9-03 5D

MARTIN, P. L.
Local Reapportionment: The Exemption of Water Management Districts,
W76-01968 9-04 6E

MARTIN, P. P.
Pore-Water Pressure Changes During Soil Liquifaction,
W76-13171 9-24 8D

MARTIN, R. D.
Biodegrading Poultry Excreta with House Fly Larvae: The Concept and Equipment,
W76-11053 9-20 5D

MARTIN, R. J.
Automation Can Be Simple,
W76-05797 9-12 5D

MARTIN, S. C.
Vegetation Responses to Grazing, Rainfall, Site Condition, and Mesquite Control on Semidesert Range,
W76-02663 9-06 2I

MARTIN, W. E.
Economic Adjustment to a New Irrigation Water Source: Pinal County, Arizona and the Central Arizona Project,
W76-02737 9-06 3F

Economic Alternatives in Solving the U.S.-Mexico Colorado River Water Salinity Problem,
W76-02226 9-05 3A

Economic Magnitudes and Economic Alternatives in Lower Basin use of Colorado River Water,
W76-05811 9-12 3A

Evaluation of Agricultural Adjustment to Irrigation Water Salinity: A Case Study for Pinal County, Arizona,
W76-04004 9-09 3C

Outdoor Recreation in the Salt-Verde Basin of Central Arizona: Demand and Value,
W76-00382 9-01 6B

Problems and Solutions in Estimating the Demand for and Value of Rural Outdoor Recreation,
W76-09633 9-18 6D

Problems and Solutions in Estimating the Demand for and Value of Rural Outdoor Recreation,
W76-10585 9-20 6B

MARTIN, W. J.
Effect of Thermal Stress on Dragonfly Nymphs,
W76-03470 9-07 5C

MARTIN, W. P.
Soil Pollutants and Their Effects on Clean Water,
W76-01020 9-03 5C

MARTINEC, J.
Snowmelt-Runoff Model for Stream Flow Forecasts,
W76-08131 9-16 2E

MARTINELL, R.
Vyredox-In Situ Purification of Ground Water,
W76-05553 9-12 5F

MARTINEZ, E. A.
Marine Meiofauna of a New York City Beach with Particular Reference to Tardigrada,
W76-01930 9-04 5C

MARTINO, K. R.
Pathological Changes Observed in Fishes Following Poisoning by Granulated Herbicides-Atrazine and Diuron: Rapid Determination of the Toxicity of Low Pesticide Concentrations (In Russian),
W76-00995 9-02 2I

MARTINO, K. V.
Natural Reproduction of the White Amur in Bodies of Water of the Lower Volga, (In Russian),
W76-07295 9-14 8I

MARTINSON, S.
Laboratory Centrifuge Saves Time and Money,
W76-09704 9-18 5D

MARTYN, R. D.
Biological Control of Water Weeds with Plant Pathogens,
W76-11904 9-22 4A

MARUICHI, N.
Desalination Apparatus,
W76-05959 9-12 3A

MARUMO, R.
Succession of Plankton Diatoms in Tokyo Bay, (In Japanese),
W76-12268 9-23 5C

MARUYAMA, K.
Some Effects of Propionate on the Growth of Rhodopseudomonas Spheroides S,
W76-05462 9-11 5C

MARWEDE, M. E.
Engineering and Economic Study of Reverse Osmosis Brackish Water Desalting Plants, Design of 1-5 MGD Plants, Plants for High Product Recovery,
W76-08118 9-16 3A

Engineering and Economic Study of Reverse Osmosis Brackish Water Desalting Plants, Design of 3-25 MGD Low Pressure Plants,
W76-08119 9-16 3A

Engineering and Economic Study of Reverse Osmosis Sea Water Desalting Plants, Design of 1-10 MGD Seawater Plants,
W76-08284 9-16 3A

MARYNOWSKI, C. W.
Future Applications of Desalting Processes for Reduction of Industrial Water Pollution,
W76-03153 9-07 3A

MARZOLF, G. R.
Quantitative Water Quality with ERTS-1,
W76-02052 9-05 5A

MASAHITO, I.
Method of Electrolytic Treatment of Waste Water,
W76-05300 9-11 5D

MASAKI, T.
On the Pollution of Water of Some Rivers in the Kasumigaura Lake Basin, (In Japanese),
W76-12568 9-23 5B

MASCH, F. D.
Estuarine Ecologic Simulations,
W76-09950 9-18 2L

Simulation of Tidal Hydrodynamics - Masonboro Inlet,
W76-09953 9-18 8B

MASHIMA, K. I.
State-of-the-Art of Geothermal Reservoir Engineering,
W76-07209 9-14 4B

MASHIMA, Y.
Method of Estimating Maximum Water-Holding Capacity in Shallow Soil in a Watershed by Portable Seismic Prospecting Equipment,
W76-03063 9-07 2G

MASHNEVA, N. I.
Biological Effects of Ru106 and J131 on Wa
Organisms,
W76-06885 9-14

Some Data on Comparative Evaluation
Radioactive and Chemical Pollution Factors
Freshwater Reservoirs,
W76-06886 9-14

MASNIK, M. T.
Relationships Between Sediment Oil Conc
trations and the Macroinvertebrates Present
a Small Stream Following an Oil Spill,
W76-01910 9-04

Summer Distribution of Fish Species in
Vicinity of a Thermal Discharge New Riv
Virginia,
W76-12717 9-24

MASON, A. K.
Some Practical Problems in Developing
Presenting Environmental Quality Indices
the Public,
W76-11246 9-21

MASON, B. J.
Production of Ice Crystals by Riming
Slightly Supercooled Cumulus,
W76-00019 9-01

MASON, C.
Masonboro Inlet Fixed-Bed Model Evaluatio
W76-09957 9-18

Regime Equations and Tidal Inlets,
W76-01484 9-03

MASON, D. G.
Sludge Removal System,
W76-09416 9-18

MASON, W. T. JR.
The Influence of Sieve Mesh Size Selectiv
on Benthic Invertebrate Indices of Eutrophi
tion,
W76-04911 9-10

MASSACHELEIN, W.
Techniques for Dispersing and Dissolv
Ozone in Water/Part I,
W76-07035 9-14

MASSEI, O.
Vessel for Removing Liquid Contamina
from the Surface of a Water Body,
W76-02611 9-06

MASSEL, S. R.
Gravity Waves Propagated over Permea
Bottom,
W76-11853 9-22

Interaction of Water Waves with Cylinder B
rier,
W76-12441 9-23

MASSI, M.
Study on the Removal of Aromatic Hydroc
bons from Industrial Wastewaters by Means
Activated Carbon (Studio per la rimozione
idrocarburi aromatici da acqua di scarico ind
triali tramite carboni attivi),
W76-07758 9-15

MASSIE, L. R.
Planning Land Application of Manure,
W76-00913 9-02

SSO, C.
ercury Concentrations in Spring and Fall ooplankton of the Estuary of the Arosa River, n Spanish),
76-08768 9-17 5C

ie Mercury Content of Industrial Fish oducts: Its Relative Variation with the Treatent (Cooking in Salt Water, Pickling and Fish oduction), (In Spanish),
76-09802 9-18 5C

STERS, H.
icrowave Sewage System With Distillation eans,
'76-00800 9-02 5D

rban Runoff Pollution Control Program Overew: FY'76,
'76-12857 9-24 5G

STINU, G. G.
istrumental Method for the Determination of race Elements in Water Samples by Neutron ctivation Analysis,
'76-05998 9-12 5A

SUDA, S.
n Experimental Investigation of Tertiary reatment with a Submerged Filter (Sesshoku akkiho ni yoru gesui sanjishori no jikkenteki enkyu),
V76-08999 9-17 5D

Experimental Studies on the Sewage Tertiary Treatment by Rotating Disc Method (Kaiten nbanho ni yoru gesui 3-ji shori no jikkenteki enkyu),
V76-07000 9-14 5D

TALAS, N. C.
Effect of Sequence Length n on the Choice of Assumed Distribution of Floods,
V76-09851 9-18 4A

Hydrologic Semantics,
V76-05414 9-11 2A

On the Value of Information to Flood Frequency Analysis,
W76-02952 9-06 4A

Regional Skew in Search of a Parent,
W76-03899 9-08 2E

Regression Analysis and Parameter Identification,
W76-09824 9-18 7A

Statistics of Data Transfer,
W76-09133 9-17 4A

ATCHES, J. R.
Mesophilic Clostridia in Puget Sound,
W76-07255 9-14 5C

ATEI, V. E.
The Hypothalamo-Hypophyseal Neurosecretory System of the Guppy Lebistes Reticulatus Under Chronic Phenol Intoxication, (In Russian),
W76-11549 9-21 5C

ATERA, J. J.
Fluoridation Analysis: The Boston Story,
W76-00233 9-01 5F

ATERESE, V.
Waste Treatment System With Enclosed Screen Unit,
W76-00588 9-02 5D

MATHESON, D. H.
Water Quality Criteria for Great Lakes Waters to be Used as Municipal and Industrial Water Supplies,
W76-08363 9-16 5D

MATHESON, G.
Greater Vancouver Opens Annacis Treatment Plant,
W76-01746 9-04 5D

MATHESON, J. C. III.
Availability of Aluminum Phosphate from Alum-Treated Wastewater for Algal Growth,
W76-08842 9-17 5D

MATHEW, E.
Plutonium in the Aquatic Environment, Its Behaviour, Distribution and Significance,
W76-08599 9-16 5C

MATHEWS, A. E.
Nebraska Flood-Plain Management Program--Part I,
W76-07215 9-14 6F

MATHEWS, C. W.
Biodeterioration of Navy Insecticides in the Ocean,
W76-06219 9-13 5B

MATHEWS, S. B.
Retention of Fluorescent Pigment by Coho Salmon After Two Years,
W76-04332 9-09 2I

MATHEWS, W. H.
The Hydrology of Glaciers,
W76-01246 9-03 2C

Orientation of Soil Stripes Caused by Needle Ice,
W76-06187 9-13 2C

MATHEWSON, J. H.
The Activities of Enzymes as Pollution Indicators,
W76-10363 9-19 5A

The Systems Concept and Pollution Control,
W76-10357 9-19 5G

MATHIAS, E. L.
Nitrogen Conservation Under Corn Planted in Quackgrass Sod,
W76-08541 9-16 3F

MATHIESON, A. C.
Photosynthetic Studies of Chondrus Crispus,
W76-10060 9-19 5C

Physiological Ecology of Four Polysiphonia Species (Rhodophyta, Ceramiales),
W76-12705 9-24 5C

MATHIEU, T. A.
Method of Removing Material from a Bed of a Body of Water,
W76-13155 9-24 5G

MATHIS, B. J.
Distribution of Mercury, Cadmium, Lead and Thallium in a Eutrophic Lake,
W76-02898 9-06 5B

MATHISEN, J. P.
Comparison Between Physical and Mathematical Modelling of a Tidal Fjord System in Northern Norway,
W76-10445 9-19 2L

MATHRE, O. B.
A Peroxygen System for Destroying Cyanide in Zinc and Cadmium Electroplating Rinse Waters,
W76-08470 9-16 5D

MATHUR, D.
Food Habits of the Rough Shiner, Notropis Baileyi Suttkus and Raney, in Halawakee Creek, Alabama,
W76-06126 9-12 2I

MATHUR, T.
Role of Phenylmercuric Acetate on Stomatal Regulation and Water Loss in Prosopis Cineraria Linn,
W76-06011 9-12 5G

MATHURIA, D. P.
Studies of Specific Capacities of Wells in Hard Rocks and Alluvial Formations of Mysore State,
W76-00485 9-01 4B

MATHYS, H.
Climatic Aspects of Frost Weathering in the Upper Mountainous Regions, (In German),
W76-04020 9-09 2C

MATINYAN, N. N.
The Qualitative Organic Matter Composition of Some Marshy Soils of Nizhnevelikoretsk Plain, (In Russian),
W76-09888 9-18 2G

MATIS, J.
Interaction of Odour and Flow Perception and The Effects of Parathion in the Locomotor Orientation of the Goldfish Carassius Auratus L.,
W76-03030 9-07 5C

MATISOFF, G.
Chemical Dynamics of a Polluted Watershed, the Merrimack River in Northern New England,
W76-12833 9-24 5B

MATLOCK, W. G.
A Rational Water Policy for Desert Citites,
W76-02229 9-05 3D

Well Cuttings Analysis in Ground-Water Resources Evaluation,
W76-13036 9-24 8G

MATMURATOV, S. A.
On Accumulation of Sr90 and Cs137 by Some Fish Species in Freshwater Reservoirs,
W76-06876 9-14 5C

MATOTAN, W. I.
Albuquerque Plant Designed with Computer in Mind,
W76-12638 9-23 5D

MATRAS, E. J.
Plant for Wastewater Treatment,
W76-02215 9-05 5D

MATSKEVICH, E. S.
Interaction of Blue-Green Algae with Multiply-Charged Inorganic Cations, (In Russian),
W76-11736 9-22 5A

MATSLER, M.
A Freely Falling Probe for Small-Scale Temperature Gradients,
W76-04949 9-10 2H

MATSNEV, A. I.
Production Studies on the Electrolytic Method of Recovering Zinc from Effluent Sediments (Proizvodstvennye issledovaniya elektroliticheskogo sposoba regeneratsii tsinka iz osadkov stochnykh vod),
W76-10846 9-20 5D

MATSON, J. V.
Ozone Degradation in Packed Columns,
W76-01743 9-04 5D

MATSON, M.
Monthly Winter Snowline Variation in the Northern Hemisphere from Satellite Records, 1966-75,
W76-03180 9-07 2C

MATSUDA, M.
Water Pollution Monitoring System, (In Japanese),
W76-01443 9-03 5A

MATSUDA, R. I.
Changes in Blood Chemistry and Blood Cell Morphology in Coho Salmon (Oncorhynchus Kisutch) Following Exposure to Sublethal Levels of Total Residual Chlorine in Municipal Wastewater,
W76-08442 9-16 5C

MATSUDA, Y.
The Influence of Various Culture Conditions on the Oxygen Consumption of Channel Catfish,
W76-07485 9-15 5C

MATSUI, I.
Studies on Industrial Wastewater Treatment in Closed System-Part 1, Recovery of Raw-Material, Lactam Monomer From Nylon (6) Processing Waste,
W76-02981 9-06 5D

MATSUI, S.
Hygienic Chemical Studies on Water Quality of the Moat of Imperial Palace: I. Relationship Between Seasonal Water Quality and Microflora in the Moat. (In Japanese),
W76-07426 9-14 5C

Hygienic Chemical Studies on Water Quality of the Moat of Imperial Palace: II. Relationship Between Water Quality and Horizontal Insolation Intensity, (In Japanese),
W76-07427 9-14 5C

MATSUK, V. E.
Some Characteristics of Fat Metabolism in Two Forms of Char Salvelinus Alpinus (L.) From Lake Azabach (Kamchatka), (In Russian),
W76-08310 9-16 2H

MATSUMOTO, H.
Sewage Purification Device (Osui joka sochi),
W76-00770 9-02 5D

MATSUMOTO, K.
Present Situation of Alkali Wastewater Neutralization Equipment Used for Stack Gas Desulfurization (Haien datsuryuyo arukari haieki chuwa sochi riyo no jissai ni tsuite),
W76-04030 9-09 5D

MATSUMOTO, M.
The Distribution of Coliforms in Fresh Water, (In Japanese),
W76-09934 9-18 5C

MATSUMOTO, R.
Flowmeter for an Open Aqueduct,
W76-05540 9-12 7B

MATSUMURA, F.
Incorporation of 203HG into Methylmercury in Fish Liver: Studies in Biochemical Mechanisms in Vitro,
W76-10347 9-19 5C

Pesticide Degradation by Marine Algae,
W76-03174 9-07 5C

MATSUMURA, T.
Dehydration of Urban Sewage Sludge by Freezing (Toshi gensui odei no toketsu dassui shori),
W76-00765 9-02 5D

Municipal Waste Water Treatment by Ozone (Ozon ni yoru toshigesui shori),
W76-09025 9-17 5D

MATSUNAGA, W.
Lake Michigan Water Quality and Lake Bed Survey, 1973,
W76-06937 9-14 5B

MATSUNAMI, T.
Isotopic Ratios of Radioruthenium and Radiocerium in Rain Water at Osaka in Relation to Nuclear Explosions During the Period of Late 1969 to 1972,
W76-07961 9-15 5A

MATSUNO, S.
Wastewater Treatment System in Steel Mills, (In Japanese),
W76-05311 9-11 5D

MATSUO, Y.
A New Sewage Treatment Technique for the Purpose of Nitrogen Elimination (I): Biological Denitrogenization of Urban Sewage (Chisso jokyo o mokuteki to shite atarashii gesui shori gijutsu (I),--Toshi gesui kara no seibutsugakuteki datsu chissoho ni tsuite),
W76-08274 9-16 5D

MATSUOKA, H.
Application of Ozone Treatment in the Dyeing Wastewater Treatment (Senshoku haisui shori ni okeru ozon shori no tekiyo),
W76-04027 9-09 5D

MATSUOKA, T.
Recent Trends of Process Control for Water Works and Drainage (Jogesuido purosesu seigyo no doko),
W76-09214 9-17 5G

MATSUSATO, T.
Studies on Death of Fish Caused by Red Tide, (In Japanese),
W76-01934 9-04 5C

MATSUSHIMA, H.
Gas Chromatographic (ECD) Deterimination of Coprostanol and Cholesterol as Indicators of Fecal Pollution in Water, (In Japanese),
W76-00602 9-02 5A

MATSUURA, T.
Filtration in Tertiary Treatment for Sewage Water (Gesui no sanjigen shori ni okeru roka),
W76-03337 9-07 5D

MATSUYAMA, M.
Changes in the Limnological Features of a Meromictic Lake Suigetsu During the Years, 1926-1967,
W76-06018 9-12 2H

MATTEOLI, R.
Biological Treatment of Winery Stillage,
W76-04731 9-10 5D

MATTER, A.
The Electro-Osmotic Guillotine, A New Devic for Core Cutting,
W76-00389 9-01

MATTERN, D. E.
True Cost of Conventional Water,
W76-01611 9-04

MATTHESS, G.
Heavy Metals as Trace Constituents in Natur Groundwaters and Polluted,
W76-07978 9-15

Pollution of Groundwater by Landfil (Pollution de L'eau Souterraine par l Decharges),
W76-10016 9-19

MATTHEWS, H. B.
Geothermal Energy System and Control A paratus,
W76-02247 9-05

MATTHEWS, J. B.
Seasonal Characteristics of Water Masses Muir Inlet, a Fjord with Tidewater Glaciers,
W76-03112 9-07

MATTHEWS, P. J.
'Catty' Odours in Sewage Works,
W76-00266 9-01

A Survey of the Boron Content of Certa Waters of the Greater London Area Using Novel Analytical Method,
W76-00727 9-02

MATTHEWS, W. H.
Water Resources Issues and the 1972 Unit Nations Conference on the Human Enviro ment,
W76-07688 9-15

MATTICE, J. S.
Assessing Toxic Effects of Chlorinated E fluents on Aquatic Organisms: A Predicti Tool,
W76-12895 9-24

Chemistry and Effects of Chlorine in Aqua Systems, A Selected, Annotated Bibliography
W76-08592 9-16

Effect of Constant and Varying Temperatu on Egg Production of Lymnaea Obrussa S (Mollusca: Gastropoda),
W76-09120 9-17

A Method for Estimating the Toxicity Chlorinated Discharges,
W76-08928 9-17

MATTISON, R. J.
Fiber Recovery Increases Water Re-Us Reduces Treatment Cost,
W76-08489 9-16

Fiber Recovery Increases Water Reuse a Reduces Waste Treatment Costs,
W76-04224 9-09

MATTRAW , H. C. JR.
Ground-Water Quality in Selected Areas Se viced by Septic Tanks, Dade County, Florida,
W76-06442 9-13

Occurrence of Chlorinated Hydrocarbon Inse ticide, Southern Florida--1968-72,
W76-03898 9-08

TSON, V. R.
mparative Toxicity of Sewage-Effluent Disfection to Freshwater Aquatic Life,
76-10898 9-20 5C

ULEWICH, V. A.
ncentrations of Nitrifying Bacteria in wages, Effluents, and a Receiving Stream d Resistance of These Organisms to lorination,
76-12654 9-23 5D

USIAK, K.
me Physical Factors as the Ecological ckground in the Pelagial of the Sosnowickie kes,
76-05474 9-11 5C

VEYEV, A. A.
llector-Analyzer for Continuous Automatic ecording of the Temperature, pH, and Elec- c Conductivity of Atmospheric Precipitation,
76-04960 9-10 2B

ZDORF, K. D.
Situ Hydraulic Conductivity at Four Hillope Locations in a Closed Drainage System,
76-00023 9-01 2G

ZKANIN, G. A.
uclear Magnetic Resonance Sensors for loisture Measurement in Roadways,
76-12458 9-23 2G

ZKE, W. H.
scher-Wyss Flotation Cells for Clarification nd Cleaning (Die Escher-Wyss Flotationszel- n zur Klaerung und Reinigung),
76-05723 9-12 5D

UCK, W. L.
Review of the Literature on the Use of imazine in Fisheries,
76-10052 9-19 5C

oxicity of Natural Pyrethrins and Five yrethroids to Fish,
76-12742 9-24 5C

UGHAN, P. M.
Review of Initial Investigations to Utilize rts-1 Data in Determining the Availability and istribution of Living Marine Resources,
76-02041 9-05 7B

UK, C. E.
ethod of Destroying Cyanides,
76-03517 9-08 5D

zone-Based System Treats Plating Effluents,
76-04039 9-09 5D

zone/UV Process Effective Wastewater reatment,
76-04033 9-09 5D

zone with Ultraviolet Light Provides Improved Chemical Oxidation of Refractory Organics,
76-07742 9-15 5D

ystem for Total Direct Recycle of Secondary Municipal Wastewater, Vol I -- Design Concepts,
76-10257 9-19 5D

UL, G. A.
elationships Between ERTS Radiances and radients Across Oceanic Fronts,
76-02039 9-05 7B

MAULDIN, A. F.
Water Pollution Abatement Technology: Costs and Capabilities, Canned and Preserved Fruits and Vegetables,
W76-08187 9-16 5G

MAULL, D. J.
Transverse Forces on Vertical Cylinders in Waves,
W76-09583 9-18 8B

MAUREL, A.
Water Transport Across Cation-Exchange Membrane. I. Experimental Technique. Influence of the Concentration and Temperature on the Water Transport Number,
W76-10620 9-20 3A

MAURER, D.
Evaluation of Sludge Dumping Off Delaware Bay,
W76-11792 9-22 5B

MAURER, D. L.
Effects of a Thermal Effluent on the American Oyster,
W76-02009 9-05 5C

MAURIN, J.
Practical Application of the Germicidal Power of Ultraviolet Irradiation to Drinking-water, (In French),
W76-09646 9-18 5F

MAUSEL, P. W.
Evaluation of Surface Water Resources from Machine-Processing of ERTS Multispectral Data,
W76-00833 9-02 5G

MAUZ, J.
The Constance Drinking Water Treatment Station-Model Studies And Operating Experiences (Die Konstanzer Trinkwasseraufbereitung-Modelluntersuchungen Und Betriebserfahrungen),
W76-01547 9-04 5F

MAXFIELD, D.
Heavy Metal Content in the Sediments of the Southern Part of the Coeur D'Alene Lake,
W76-07394 9-14 2H

Heavy Metal Pollution in the Sediments of the Coeur D'Alene River Delta,
W76-04091 9-09 5A

MAXWELL, R. C.
Some Terrestrial Considerations Associated with Cooling Tower Systems for Electric Power Generation,
W76-04821 9-10 5B

MAXWELL, W. H. C.
Experimental Studies of Wing-Wall Mixing Control,
W76-06814 9-14 5B

MAY, B. E.
Comparative Effects of Diquat Plus Copper Sulfate on Aquatic Organisms,
W76-09821 9-18 5C

MAY, C. L.
ERTS Image Data Compression Technique Evaluation,
W76-02061 9-05 7C

MAY, H. T.
A Comparison of Manually Digitized Radar Data and Observed Cool Season Precipitation Over the Southern Appalachians,
W76-08414 9-16 2B

MAY, R. C.
Effects of Temperature and Salinity on Fertilization, Embryonic Development, and Hatching in Bair-Diella Icistia (Pisces:Sciaenidae), and the Effect of Parental Salinity Acclimation on Embryonic and larval Salinity Tolerance,
W76-04910 9-10 5C

MAY, V. J.
Floods in Lombard Quadrangle, Illinois,
W76-01183 9-03 2E

MAYDA, J.
Lawyers and Ecomanagement,
W76-10753 9-20 6E

MAYE, P. R.
Landfill Stabilization with Leachate Recycle,
W76-02440 9-05 5E

MAYER, C.
A Water Quality Control Program,
W76-07642 9-15 5D

MAYER, D. A.
Observations of Currents and Temperatures in the Southeast Florida Coastal Zone During 1971-72,
W76-06656 9-13 2L

Water Movement Within the Apex of the New York Bight During Summer and Fall of 1973,
W76-03185 9-07 2L

MAYER, E.
Aquatic Plant Control Problems at Sam Rayburn Reservoir,
W76-11152 9-21 5G

MAYER, F. G.
Water Purification Apparatus,
W76-11832 9-22 5D

MAYER, F. L. JR.
Toxaphene Effects on Reproduction, Growth, and Mortality of Brook Trout,
W76-07248 9-14 5C

MAYER, P. G.
Heat Dissipation from Turbulent Open Channel Flow,
W76-05248 9-11 5B

Near-Field Jet Penetration and Reservoir Mixing,
W76-09962 9-18 8C

MAYER, T.
Rates of Accumulation of Phosphorus Forms in Lake Erie Sediments,
W76-08726 9-16 2J

MAYER, V.
Experiments on Rapid Sand Filtration of Biological Sewage Treatment-Plant Effluents (Untersuchungen Ueber Das Verhalten von Schnell-Sandfiltern Bei der Filtration Eines Biologisch Gereinigten Klaeranlagenablaufs),
W76-10215 9-19 5D

MAYHEW, C. J.
Apparatus for Conditioning Unlimited Quantities of Finished Waters for Enteric Virus Detection,
W76-12168 9-23 5A

MAYKUT, G. A.
The Spectral Distribution of Light Beneath First-Year Sea Ice in the Artic Ocean,
W76-02923 9-06 2C

MAYKUT, G. A.

The Thickness Distribution of Sea Ice,
W76-04696 9-10 2C

MAYLAND, H. F.
Alternative Methods of Estimating Snow Water Parameters,
W76-08259 9-16 2C

MAYNARD, H. M.
Relating Environmental Modeling to Policy Issues and Decisions,
W76-11879 9-22 5G

MAYO, D. W.
Long Term Weathering Characteristics of Iranian Crude Oil: The Wreck of the 'Northern Gulf',
W76-10405 9-19 5B

MAYO, R. D.
Conventional Fish Screening Systems and Some Promising Alternatives,
W76-08655 9-16 8I

Intensified Fish Culture Combining Water Reconditioning with Pollution Abatement,
W76-07711 9-15 5G

Simple Flume for Guidance and Impingement Studies,
W76-07213 9-14 8I

MAYOR-MORA, R. E.
Application of a Dynamic Network Model to Hydraulic and Water Quality Studies of the St. Lawrence River,
W76-10440 9-19 5B

MAYS, C. E.
A Study of the Ozark Hellbender Cryptobranchus Alleganiensis Bishopi,
W76-01199 9-03 2H

MAZHEIKAITE, S. I.
Microzooplankton of Lakes Obelija, Slavantas, Galstas and Dusia, (In Russian),
W76-07283 9-14 5C

MAZHILIS, A. A.
Infection of Broad-Clawed Crayfish with Branchiobdella and Control Measures Against them, (In Russian),
W76-09086 9-17 2H

MAZOIT, L. P.
Practical Application of the Germicidal Power of Ultraviolet Irradiation to Drinking-water, (In French),
W76-09646 9-18 5F

MAZOR, E.
Hot Springs of Rhodesia: Their Noble Gases, Isotopic and Chemical Composition,
W76-06190 9-13 2K

MAZURAK, A. P.
Detachment of Soil Aggregates by Simulated Rainfall From Heavily Manured Soils in Eastern Nebraska,
W76-03730 9-08 2J

Effect of Effluent from Beef Feedlots on the Physical and Chemical Properties of Soil,
W76-04289 9-09 5B

MBURU, S. G.
Vertical Temperature and Chemical Gradients in Groundwater in the Tucson Basin, Arizona,
W76-13129 9-24 4B

MC CLEAVE, J. D.
Distribution of Pelagic Fishes in the Sheepscot River-Back River Estuary, Wiscasset, Maine,
W76-12710 9-24 2L

MC CORMICK, J. H.
Temperature Effects of Young Yellow Perch, Perca Flavescens (Mitchill),
W76-11194 9-21 5C

MCALLISTER, I. R.
Oil Containment Boom,
W76-04602 9-10 5G

MCANALLY, W. H.
Los Angeles and Long Beach Harbors Model Study; Report 1, Prototype Data Acquisition and Observations,
W76-11751 9-22 8B

MCANALLY, W. H. JR.
Los Angeles and Long Beach Harbors Model Study; Report 5, Tidal Verification and Base Circulation Tests,
W76-07474 9-15 8B

Physical Hydraulic Models: Assessment of Predictive Capabilities; Report 1, Hyrodynamics of the Delaware River Estuary Model,
W76-07463 9-15 8B

MCANANEY, D. W.
Process and Plant for Treating Sewage and the Like,
W76-00774 9-02 5D

MCAULIFFE, C. D.
Chevron Main Pass Block 41 Oil Spill: Chemical and Biological Investigations,
W76-00145 9-01 5A

Determination of C1-C10 Hydrocarbons in Water,
W76-10392 9-19 5A

The Environmental Impact of an Offshore Oil Spill,
W76-05148 9-11 5C

Partitioning of Hydrocarbons Between the Atmosphere and Natural Waters,
W76-05149 9-11 5B

MCAVOY, P. V.
Wisconsin Strives to Minimize Conflicts over the Use of Water,
W76-11896 9-22 4B

MCBEAN, E.
Numerical Errors in Water Profile Computation,
W76-02688 9-06 8B

MCBRIDE, M. S.
Digital Models of a Glacial Outwash Aquifer in the Pearl-Sallie Lakes Area, West-Central Minnesota,
W76-13082 9-24 2F

Ground Water for Irrigation in the Viking Basin, West-Central Minnesota,
W76-02949 9-06 4B

Predicted Effects of Pumping on Lowering the Water Table in the Twin, Crystal, Ryan Lakes-Highway 100 Area, Hennepin Country, Minnesota,
W76-02965 9-06 4C

MCCABE, L. J.
Outbreaks of Waterborne Disease in the United States, 1971-1972,
W76-06138 9-12 5C

Overview of Problems Associated with Ina
ganic Contaminants in Drinking Water,
W76-03429 9-07

MCCABE, P.
Water Pollution, EESG Bibliography Seri
17,
W76-12963 9-24

MCCAFFERTY, W. P.
An Information Retrieval System for t
Macroinvertebrate Fauna of Indiana Rivers a
Lakes,
W76-01513 9-04

MCCAIN, J. C.
Fouling Community Changes Induced by t
Thermal Discharge of a Hawaiian Power Plan
W76-03028 9-07

MCCAIN, J. F.
Manual for Estimating Flood Characteristics
Natural-Flow Streams in Colorado,
W76-11672 9-22

Map Showing Flood-Prone Areas, Colora
Springs-Castle Rock Area, Front Range Urb
Corridor, Colorado,
W76-00668 9-02

Map Showing Flood-Prone Areas, Grea
Denver Area, Front Range Urban Corrid
Colorado,
W76-01186 9-03

Water Availability of Monroe Coun
Alabama,
W76-12281 9-23

MCCALL, P. P.
Energy Models and Forecasts: A User's Po
of View,
W76-09612 9-18

MCCALLA, T. M.
Disposal of Effluent from a Beef Cattle Feed
Runoff Control Holding Pond,
W76-04290 9-09

Nebraska Animal Waste Research,
W76-00455 9-01

Nitrate Movement and its Distribution in t
Soil Profile of Differentially Fertilized Co
Watersheds,
W76-06401 9-13

Physical and Chemical Properties of Outdo
Beef Cattle Feedlot Runoff,
W76-10543 9-20

Pollution Abatement from Cattle Feedlots
Northeastern Colorado and Nebraska,
W76-02762 9-06

Soil Water Nitrate Beneath a Broad-Basin T
raced Feedlot,
W76-03981 9-08

Think of Manure as a Resource, not A Waste
W76-00459 9-01

MCCALLUM, R.
Down-the-Hole Hammer Drilling,
W76-00279 9-01

'Stiff Foam' Drilling,
W76-13029 9-24

MCCAMMON, G.
Biological Survey of the Savannah River in t
Vicinity of the Savannah River Project, Part

Report on Work Done and Tentative Conclu-
ions on the Fall Survey,
V76-10042 9-19 5C

Biological Survey of the Savannah River in the
Vicinity of the Savannah River Project. Part III
Report on the Work Done and Tentative Con-
lusions on the Winter Survey,
V76-10043 9-19 5C

CCAMMON, R. B.
Towards a Computer-Based Information Moni-
oring System for Groundwater Data in New
Zealand,
W76-11247 9-21 4B

CCANDLESS, D. E. JR.
nstallation Checks on 4-Inch (102 MM) Corru-
ated Polyethylene Drain Tubing,
W76-01071 9-03 3F

CCARLEY, R. W.
River Point Directory for the Mississippi River-
Gulf Coast Inland Waterways System,
W76-07458 9-15 2L

CCARTHY, J. C.
A Recirculation System for Experimental
Aquaria,
W76-07972 9-15 7B

CCARTHY, M. D.
An Econometric Forecasting Model for the
Major Metropolitan Areas in the Lake Erie
Basin,
W76-11322 9-21 5B

CCARTHY, M. J.
Particle-Laden Jets with Application to Ocean
Dumping,
W76-09959 9-18 5B

CCARTHY, P. L.
Multi-Process Biological Treatment Model,
W76-03799 9-08 5D

CCARTNEY, B. L.
Water Waves Generated by Landslides in
Reservoirs,
W76-03382 9-07 2H

CCARTY, J. E.
Oakland Maps Program to Combat Sewer Infil-
tration,
W76-00792 9-02 5D

CCARTY, P. L.
Oxidation of Cinnabar by FE (III) in Acid Mine
Waters,
W76-01099 9-03 2K

Verification Studies of the Biofilm Model for
Bacterial Substrate Utilization,
W76-10247 9-19 5D

CCAULEY, J. R.
Quantitative Water Quality with ERTS-1,
W76-02052 9-05 5A

CCAULEY, V. J. E.
Two New Quantitative Samplers for Aquatic
Phytomacrofauna,
W76-04593 9-10 5C

CCAULL, J.
Dams of Pork,
W76-10738 9-20 6B

CCAVE, I. N.
A Physical Model for the Rate of Deposition of
Fine-Grained Sediments in the Deep Sea,
W76-08736 9-16 2J

MCCLAIN, T. J.
Water Resources of Gove, Logan, and Wallace
Counties, West-Central Kansas,
W76-00093 9-01 7C

MCCLEAN, R. O.
Studies of Tolerance to Heavy Metals in the
Flora of the Rivers Ystwyth and Clarach,
Wales,
W76-03053 9-07 5C

MCCLEARY, J. D.
Near Surface Sampler,
W76-10995 9-20 5A

MCCLIMANS, T.
Comparison Between Physical and Mathemati-
cal Modelling of a Tidal Fjord System in
Northern Norway,
W76-10445 9-19 2L

MCCLIN, R.
Trace Element Interactions in the Estuarine
Zone of the Anasco River, Puerto Rico,
W76-10892 9-20 5C

MCCLORY, R. M.
Readily Attachable Water Filter with Cutoff
Valve,
W76-05038 9-11 8C

MCCLOSKEY, E. W.
Irrigation Signalling Device,
W76-08196 9-16 3F

MCCLUNG, D. M.
Methods of Avalanche Control on Washington
Highways, Fourth Annual Report,
W76-02546 9-06 2C

MCCLURKIN, D. C.
Dissolved Nutrient Losses in Storm Runoff
from Five Southern Pine Watersheds,
W76-12172 9-23 5B

Dissolved Nutrient Losses in Storm Runoff
from Five Southern Pine Watersheds,
W76-12436 9-23 5B

MCCOLL, J. G.
A Model of Ion Transport During Moisture
Flow From a Douglas Fir Forest Floor,
W76-01613 9-04 2I

MCCOLL, R. H. S.
Chemical Run-off in Catchments Converted to
Agricultural Use,
W76-02528 9-06 5B

Lake Ellesmere, Canterbury, New Zealand: A
Review of the Lake and its Catchment,
W76-06762 9-13 5C

Self-Purification of Small Freshwater Streams:
Phosphate, Nitrate, and Ammonia Removal,
W76-09398 9-17 5G

MCCOMAS, F. T.
Application of the Stainton Syringe Method to
the Analysis of Mercury in Natural Waters,
W76-03313 9-07 5A

Application of the Stainton Syringe Method to
the Analysis of Mercury in Natural Waters,
W76-08025 9-15 5A

MCCOMAS, J. R.
Rotatable Sprinkler and Water Deflector Used
Therewith,
W76-11445 9-21 3F

MCCOMAS, M. R.
A Comparison of Phosphorus and Water Con-
tributions by Snowfall and Rain in Northeast
Ohio,
W76-11858 9-22 5B

MCCOMBS, W. H.
Overcomes Phosphate Problem,
W76-02297 9-05 5D

MCCOMISH, T. S.
Cannibalism by the Adult Alewife (Alosa Pseu-
dogarengus) in Southern Lake Michigan,
W76-11324 9-21 2H

MCCONNELL, J.
A Numerical Model of Material Transport in
Salt-Wedge Estuaries, Part II. Model Computa-
tion of Salinity and Salt-Wedge Dissolved Ox-
ygen in the Duwamish River Estuary, King
County, Washington,
W76-02482 9-05 2L

MCCONNELL, J. B.
Data on Selected Lakes in Washington, Part 3,
W76-08564 9-16 2H

Data on Selected Lakes in Washington, Part 4,
W76-12808 9-24 7C

Reconnaissance Data on Lakes in Washington--
Volume 1. Clallam, Island, Jefferson, San Juan,
Skagit, and Whatcom Counties,
W76-07592 9-15 2H

Reconnaissance Data on Lakes in Washington--
Volume 2. King and Snohomish Counties,
W76-07591 9-15 2H

Reconnaissance Data on Lakes in Washington--
Volume 3. Kitsap, Mason, and Pierce Counties,
W76-08565 9-16 2H

Reconnaissance Data on Lakes in Washington--
Volume 4. Clark, Cowlitz, Grays Harbor,
Lewis, Pacific, Skamania, and Thurston Coun-
ties,
W76-08566 9-16 2H

Reconnaissance Data on Lakes in Washington--
Volume 5. Chelan, Ferry, Kittitas, Klickitat,
Okanogan, and Yakima Counties,
W76-08567 9-16 2H

Reconnaissance Data on Lakes in Washington--
Volume 6. Adams, Benton, Douglas, Franklin,
Grant, Lincoln, Walla Walla, and Whitman
Counties,
W76-10138 9-19 7C

Reconnaissance Data on Lakes in Washington--
Volume 7. Pend Oreille, Spokane, and Stevens
Counties,
W76-10139 9-19 7C

MCCONNELL, K. E.
Some Problems in Estimating the Demand for
Outdoor Recreation,
W76-06232 9-13 6D

MCCONNELL, W. J.
Emory Oak (Quercus Emoryi) Litter Phenolics
as Environmental Hazards for Aquatic Animals
in Southeastern Arizona,
W76-06125 9-12 5B

MCCOOL, D. K.
Variation of Suspended Sediment Load in the
Palouse Region of the Northwest,
W76-13012 9-24 5G

MCCORMICK, G. C.
The Degree of Common Orientation of Hydrometeors Observed by Polarization Diversity Radars,
W76-11745 9-22 2B

MCCORMICK, J. F.
Influence of Nutrient Availability on Ecosystem Structure,
W76-10324 9-19 5C

MCCORMICK, J. H.
Growth and Survival of Young-of-the-Year Emerald Shiners (Notropis Atherinoides) at Different Temperatures,
W76-08779 9-17 5C

MCCORMICK, J. M.
Bioassay Methods and Impact Evaluation of Ocean Disposal Sites,
W76-05087 9-11 5A

MCCORMICK, M.
Acute Toxicity of a Native Mummichog Population (Fundulus Heteroclitus) to Mercury,
W76-05742 9-12 5C

MCCORMICK, R. L.
Filter-Pack Installation and Redevelopment Techniques for Shallow Recharge Shafts,
W76-03527 9-08 4B

MCCORQUODALE, J. A.
A Stable Numerical Model for Local Scour,
W76-05666 9-12 2J

MCCOSH, B.
Solar Energy Technology, State of the Art, An Annotated Bibliography,
W76-06565 9-13 3A

MCCOWN, D. L.
Field Studies of the Thermal Plume from the D. C. Cook Submerged Discharge with Comparisons to Hydraulic-Model Results,
W76-06673 9-13 5B

MCCOWN, R. L.
The Annual Variation in Yield of Pastures in the Seasonally Dry Tropics of Queensland,
W76-06016 9-12 3F

MCCOY, C. J.
The Use of Fluid Catalytic Cracking Catalyst in Activated Sludge Wastewater Treatment,
W76-12646 9-23 5D

MCCOY, E. W.
Economic Analysis of the Inland Fisheries Project in El Salvador,
W76-03264 9-07 6E

MCCOY, H. J.
Summary of Hydrologic Conditions in Collier County, Florida, 1974,
W76-04403 9-09 4A

MCCOY, R. E.
Carissa Dieback: Etiology Suggests Control,
W76-11513 9-21 2I

MCCRACKEN, A.
An Investigation of Antibiotic and Drug Residues in Fish,
W76-09124 9-17 5C

MCCRACKEN, A. B.
Privately-Owned Water Supply Systems,
W76-01366 9-03 3D

MCCRACKEN, J. R.
The Treatment of Wool-Scouring Effluent: Centrifugation Studies,
W76-03094 9-07 5D

MCCREATH, G. F.
Design of Long Interceptor Sewers,
W76-01047 9-03 5D

MCCRINK, E. J.
Sewage Disposal,
W76-00855 9-02 5D

MCCRORY, P. A.
Comparative Discharges of Fresh and Waste Water Along the California Coast,
W76-01914 9-04 5B

MCCUEN, R. H.
Forecasting Urban Water Use: Commercial Establishments,
W76-01609 9-04 6D

A Proposed Index for Comparing Hydrographs,
W76-05157 9-11 2A

MCCULLOUGH, M. M.
Water Quality in Rhode River at Smithsonian Institution Pier Near Annapolis, Maryland, April 1970 Through December 1973,
W76-03914 9-08 5A

MCCULLOUGH, R. P.
A Centrifugal Method for the Evaluation of Polymer Membranes for Reverse Osmosis,
W76-04186 9-09 5D

MCCURDY, R. S.
Wastewater Treatment at Ford's Windsor Complex,
W76-02298 9-05 5D

MCCUTCHAN, J. W.
Reclamation of Hyperion Secondary Effluent by Reverse Osmosis,
W76-03961 9-08 5D

MCDANNALD, R. B.
Corrosion,
W76-10095 9-19 8G

Down-the-Hole Insurance,
W76-13032 9-24 8G

Encrustation,
W76-11912 9-22 8G

What Type of Rig Should You Buy,
W76-10094 9-19 8C

Wire Rope,
W76-09359 9-17 8G

MCDERMOTT, D. J.
Polychlorinated Biphenyls Off Southern California,
W76-10647 9-20 5C

MCDERMOTT, J. H.
Impact of the Safe Drinking Water Act,
W76-03423 9-07 5F

The Safe Drinking Water Act and EPA's Role in Training,
W76-01963 9-04 5G

Virus Problems and Their Relation to Water Supplies,
W76-00392 9-01 5A

MCDONALD, D. B.
Coralville Water Quality Study, Annual Repor
Water Year October 1, 1974 to September 3
1975,
W76-08324 9-16 5

MCDONALD, F. R.
Identification of Gamma-Valerolactone
Waste Water From an Oil-Shale in Situ Retort
W76-05448 9-11 5

MCDONALD, J.
Filter Media Comparison at Prince George Pu
and Paper (Limited),
W76-09286 9-17 5

MCDONALD, M. P.
Coralville Water Quality Study, Annual Repor
Water Year October 1, 1974 to September 3
1975,
W76-08324 9-16 5

MCDONALD, N.
Underlake Sewer Spurs Resort Development,
W76-10685 9-20 5

MCDONNELL, A. J.
Chemical Kinetics of Neutralization of Acid
Water by Crushed Limestone,
W76-06946 9-14 5

Limestone Barriers to Neutralize Acid
Streams,
W76-02938 9-06 5

Use of Crushed Limestone to Neutralize Ac
Wastes,
W76-08225 9-16 5

MCDONNELL, R. P.
Removal and Recovery of Phenols from Indu
trial Waste Effluents with Amberlite XA
Polymeric Adsorbents,
W76-12487 9-23 5

MCDONOUGH, W. T.
Water Potentials of Salsola Kali L. at Differi
Levels of Substrate Water Availability,
W76-00705 9-02

MCDOUGAL, M. S.
The Protection of the Environment and Wor
Public Order: Some Recent Developments,
W76-04329 9-09 6

MCDOWELL, L. L.
An Automatic Pumping Sampler for Evaluati
the Transport of Pesticides in Suspended Sed
ment,
W76-00728 9-02 5

MCELHOE, B. A.
Soil Irrigation Methods and Apparatus,
W76-04266 9-09 3

MCELROY, A. D.
Analysis of Nonpoint-Source Pollutants in t
Missouri Basin Region,
W76-00369 9-01 5

MCELROY, F. W.
The Integrated Multi-Media Pollution Model,
W76-01013 9-03 5

MCEVER, L. F.
Transformations of Swine Wastewater
Laboratory Soil Profiles,
W76-01387 9-03 5

MCEWEN, S. N.
Tubular Filter in Settler,
W76-06475 9-13 5

FARLAND, J. W.
Groundwater Management and Salinity Control: A Case Study in Northwest Mexico,
W76-01695 9-04 4B

FARLANE, J. C.
In Situ Soil Gamma Analyzer--A New Approach to Determine the Movement of Pollutants in Soils.
W76-00912 9-02 5A

Tritium Fractionation in Plants,
W76-03632 9-08 5A

FETERS, G.
Comparative Survival of Indicator Bacteria and Enteric Pathogens in Well Water,
W76-12194 9-23 5A

GAHA, Y. J.
The Effects of Variations in Turbidity on Cycles of Planktonic and Benthic Organisms in Flood Control Reservoirs,
W76-11172 9-21 5C

GARVEY, F. X.
Effluent Control in Zinc Bonderizing Processes: I. The Recycle of Rinse Waters Via an Ion Exchange Process,
W76-05284 9-11 5D

GEHEE, R. M.
C. E. Jacob's Study on the Prospective and Hypothetical Future of the Mining of the Ground Water Deposited Under the Southern High Plains of Texas and New Mexico,
W76-03363 9-07 4B

GHEE, T. J.
Biological Treatment of Feedlot Runoff Following Settling,
W76-01042 9-03 5D

GILL, H. N.
Management of Runoff Water in Relation to Feedlot Operations,
W76-07168 9-14 5D

Management of Runoff Water in Relation to Feedlot Operations,
W76-12365 9-23 5D

GILL, J. M.
Development and Application of a Water Resource Allocation Model,
W76-13168 9-24 5G

GINN, J.
A Study of the Effects of Detergents on Typical Bilge Waters and Correlation of Oil Particle Sizes,
W76-11939 9-22 5C

GINNESS, J.
ERTS-1 Investigation of Wetlands Ecology,
W76-08319 9-16 2L

GINNIS, D. F.
Evaluation of ERTS Data for Certain Hydrological Uses,
W76-08147 9-16 7C

Selected Satellite Data on Snow and Ice in the Great Lakes Basin 1972-73,
W76-11301 9-21 2C

GINNIS, D. F. JR.
Determination of Snow Depth and Snow Extent from NOAA 2 Satellite Very High Resolution Radiometer Data,
W76-06383 9-13 2C

Snow-Extent Mapping and Lake Ice Studies Using ERTS-1 MSS Together with NOAA-2 VHRR,
W76-02028 9-05 7B

MCGINNIS, J.
Applications of ERTS Data to Coastal Wetland Ecology with Special Reference to Plant Community Mapping and Typing and Impact of Man,
W76-02036 9-05 7B

MCGINTY, D. T.
Mineral Cycling Strategies of Two Deciduous and Two Evergreen Tree Species on a Southern Appalachian Watershed,
W76-10321 9-19 5C

MCGIRR, D. J.
Interlaboratory Quality Control Study No. 4, Arsenic, Cadmium, Cobalt, Mercury and Nickel,
W76-10495 9-19 5A

Interlaboratory Quality Control Study No. 5, Chromium, Iron, Molybdenum and Vanadium,
W76-10493 9-19 5A

MCGLOTHLIN, R. E.
Waste Water Base Drilling Fluid Disposal,
W76-08914 9-17 5D

MCGOWEN, W. E.
Tar Ball Sampling in the Western North Atlantic,
W76-10380 9-19 5B

MCGREEVY, L. J.
Selected Hydrologic Data, Chester County, Pennsylvania,
W76-08557 9-16 7C

MCGREGOR, K. C.
Erosion Control With No-Till Cropping Practices,
W76-04680 9-10 4D

MCGRIFF, E. C.
Treating Dye and Finishing Wastes,
W76-04789 9-10 5D

MCGRIFF, E. C. JR.
Agricultural Wastes, (Literature Review),
W76-01390 9-03 5D

MCGUINNES, J. L.
A Watershed Soils Index of Runoff Potential,
W76-01848 9-04 2G

MCGUINNESS, J. L.
Estimating Quantity and Quality of Runoff from Eastern Beef Barnlots,
W76-07193 9-14 5B

MCGUINNESS, W. V. JR.
Guidelines for Material Placement in Marsh Creation,
W76-08325 9-16 5G

MCGUIRE, B.
Suspended Sediment and Turbidity in Irrigation Return Flows - A Prototype Study,
W76-13017 9-24 5B

MCGUIRE, J. M.
A Proposed National Monitoring System for Organics in Water,
W76-10668 9-20 5A

MCGUIRE, R. A.
A Generalized Streamflow Simulation System, Conceptual Modeling for Digital Computers,
W76-06634 9-13 2A

MCGUIRE, W. J.
Disposal of Drilling Fluids and Drilled-up Solids in Offshore Drilling Operations,
W76-08915 9-17 5D

MCGURK, F. F.
Complexes Affecting the Solubility of Calcium Carbonate in Water - Phase II,
W76-05180 9-11 8G

MCHENRY, J. R.
Deposition Rates in Valleys Determined Using Fallout Cesium-137,
W76-00547 9-02 2J

Efficiency of Nitrogen, Carbon, and Phosphorus Retention by Small Agricultural Reservoirs,
W76-12983 9-24 4D

Fallout CS-137: A Tool in Conservation Research,
W76-05690 9-12 2J

Fallout 137Cs in the Soils and Sediments of Three Small Watersheds,
W76-11453 9-21 5B

The Influence of Suspended Sediment on the Reaeration of Uniform Streams,
W76-02934 9-06 5G

Redistribution of Cesium-137 in Southeastern Watersheds,
W76-10295 9-19 5B

MCHUGH, J. L.
Possible Effects of Construction and Operation of a Supertanker Terminal on the Marine Environment in the New York Bight,
W76-13089 9-24 6G

MCHUGH, J. P.
Extended Aeration in a Combined Wastewater Treatment Plant,
W76-11373 9-21 5D

MCILROY, J. C.
Quick Release Safety Trap,
W76-01467 9-03 8C

MCILROY, R. A.
The Control of Chloride Ions in the MgO Recovery System,
W76-08457 9-16 5D

MCINTIRE, G. L.
The Role of Spartina Alterniflora in the Flow of Lead, Cadmium, and Copper Through the Salt-Marsh Ecosystem,
W76-10281 9-19 5C

Spartina Revegetation on Dredge Spoil in SE Marshes,
W76-03121 9-07 5G

MCINTRYE, D. R.
Cadmium Concentrations in Rock Scallops in Comparison with some other Species,
W76-12715 9-24 5C

MCINTYRE, D.
Structure of Reverse Osmosis Membranes,
W76-04503 9-10 3A

MCINTYRE, D. S.
Contact Materials for Laboratory Soil Water Studies,
W76-01415 9-03 2G

MCINTYRE, J. D.
Heritable Resistance to Gas Bubble Disease in Fall Chinook Salmon, Oncorhynchus Tshawytscha,
W76-03785 9-08 5C

MCINTYRE, N. S.
Characterization of Adsorbed Cobalt at the Oxide-Water Interface,
W76-10634 9-20 5D

MCINTYRE, S.
Commentary on: Future Prospects for Law of the Sea: Comments on Caracas and Prediction for the Future,
W76-07348 9-14 6E

MCJUNKIN, F. E.
Wastewater Reuse in Coastal Areas,
W76-11620 9-21 5D

MCKAY, H. A. C.
The Effect of Polyacrylamide on the Settling of Thames Mud,
W76-09243 9-17 2J

MCKEAN, J. R.
The Development of Water Multiplier Impacts from Input-Output Analysis: An Empirical Example from Boulder, Larimer, and Weld Counties, Colorado,
W76-08100 9-15 6D

An Economic Analysis of Water Use in Colorado's Economy,
W76-05837 9-12 6B

MCKEEVER, J. V.
Method and Apparatus for Processing Refuse, Sewage and/or Waste Material into a Source of Energy,
W76-02214 9-05 5D

MCKELLAR, H.
Total Metabolism of Thermally Affected Coastal Systems on the West Coast of Florida,
W76-02021 9-05 5C

MCKENNA, E. J.
Biodegradation of Polynuclear Aromatic Hydrocarbon Pollutants by Soil and Water Microorganisms,
W76-08752 9-17 5B

MCKENNA, J. Z.
An Historical Perspective of Nutrient Inputs and Trophic States as Deduced from Cayuga Lake Sediments,
W76-12463 9-23 5C

MCKENNEY, C. L. JR.
Effects of Acute Exposure to Sublethal Concentrations of Cadmium on the Thermal Resistance of the Mummichog,
W76-03465 9-07 5C

MCKENZIE, L. R.
Determination of Ammonia-, Nitrate-, And Organic Nitrogen in Water and Waste Water with an Ammonia Gas-Sensing Electrode,
W76-03702 9-08 5A

MCKENZIE, L. S. III
Morphology of an Arctic River Bar,
W76-01319 9-03 2C

MCKENZIE, P.
The Microbial Degradation of Oil in the Sea,
W76-11101 9-21 5B

MCKENZIE, R. S.
Silver Iodide Aerosol Production by a Plated Hot-Wire Generator,
W76-02555 9-06 2B

MCKENZIE, S. W.
Formulation and Use of Practical Models for River Quality Assessment,
W76-01006 9-03 5G

Formulation and use of Practical Models for River Quality Assessment,
W76-06209 9-13 5G

Methods and Data Requirements for River-Quality Assessment,
W76-01334 9-03 5A

Planning Implications of Dissolved Oxygen Depletion in the Willamette River, Oregon,
W76-10332 9-19 5G

MCKENZIE, W. H.
Use of a Bioassay Test in Evaluating the Toxicity of Drilling Fluid Additives on Galveston Bay Shrimp,
W76-00408 9-01 5A

MCKEOWN, J. J.
Current Status of Paper Reprocessing Effluent Characteristics and Disposal Practices,
W76-02468 9-05 5D

A Statistical Documentation of the Performance of Activated Sludge and Aerated Stabilization Basin Systems Operating in the Paper Industry,
W76-00047 9-01 5D

Study to Define Changes in Pulp Mill Effluent-Contributed Color in Receiving Waters Detectable by Human Observers,
W76-09276 9-17 5C

MCKIM, H. L.
Applications of ERTS-1 Imagery to Terrestrial and Marine Environmental Analyses in Alaska,
W76-02049 9-05 7B

Arctic and Subarctic Environmental Analyses Utilizing ERTS-1 Imagery,
W76-08510 9-16 2C

MCKIM, J. M.
Effects of Pollution on Freshwater Fish, (Literature Review),
W76-12735 9-24 5C

Toxicity of a Linear Alkylate Sulfonate Detergent to Larvae of Four Species of Freshwater Fish,
W76-00337 9-01 5C

MCKINNEY, G. L.
Efficiency of Heavy Metals Removal in Municipal Sewage Treatment Plants,
W76-08008 9-15 5D

MCKINNEY, R. E.
Level Detection System,
W76-04279 9-09 5D

State of the Art of Lagoon Wastewater Treatment,
W76-07053 9-14 5D

MCKINNEY, R. JR.
Reverse Osmosis Process Using Crosslinked Aromatic Polyamide Membranes,
W76-01134 9-03 3A

Reverse Osmosis Process Using Crosslinked Aromatic Polyamide Membranes,
W76-09877 9-18 3A

MCKINNON, A. E.
A Bioenergetics-Based Model for Pollutant Accumulation by Fish. Simulation of PCB and Methyl-Mercury Residue Levels in Ottawa River Yellow Perch (Perca Flavescens),
W76-12329 9-23 5

MCKNIGHT, C. E.
Construction Safety in Waterworks,
W76-11651 9-22 5

MCKNIGHT, M. S.
Protection of the Marine Environment,
W76-11982 9-22 5

MCKOWN, M. M.
Environmental Implications of Sediment Bu
Analysis Techniques for Trace Metals
Offshore Well-Drilling Operations,
W76-08908 9-17 5

MCKYES, E.
A Laboratory Test of Some Drain Tube Filt
Materials,
W76-00832 9-02 8

MCLACHLAN, A.
Notes on the Biology of Some Estuari
Bivalves,
W76-06134 9-12 2

MCLAIN, E. A.
Development of CTA High Flux Low Opera
ing Pressure R.O. Modules,
W76-03149 9-07 3

MCLAIN, L. R.
Inhibition of Salt Water Survival and Na-K
ATPase Elevation in Steelhead Trout (Salm
Gairdneri) by Moderate Water Temperatures,
W76-03778 9-08 5

MCLAMORE, R. T.
Heavy Collars Aid Hole Control,
W76-10102 9-19 8

MCLAREN, A. D.
Nitrate Reduction and Associated Microbi
Populations in a Ponded Hanford Sandy Loam
W76-08546 9-16 5

MCLAREN, D. A.
The Nature of Activated Sludge Flocs,
W76-09188 9-17 5

MCLAUGHLIN, D.
A Conceptual Representation of the New Yo
Bight Ecosystem,
W76-08411 9-16 5

MCLAUGHLIN, D. K.
Hydraulic Model Studies of Mechanical Mixi
Devices in Stratified Lakes,
W76-11495 9-21 8

MCLAUGHLIN, R. K.
Analysis of Pulp and Paper Mill Waste Wate
by High-Resolution Ion-Exchange Chromato
raphy,
W76-05709 9-12 5

MCLAY, R. W.
Improving the Statistical Reliability of Strea
Heat Assimilation Prediction,
W76-02271 9-05 5

MCLEAN, J. S.
Factors Altering the Microclimate in Carlsba
Caverns, New Mexico,
W76-06452 9-13 2

LEAN, R. O.
Algal Communities in Polluted Rivers of South Wales,
W76-09107 9-17 5C

The Distribution of Stigeoclonium Tenue Kutz. in South Wales in Relation to its Use as an Indicator of Organic Pollution,
W76-07957 9-15 5B

Studies of Tolerance to Heavy Metals in the Flora of the Rivers Ystwyth and Clarach, Wales,
W76-07712 9-15 5C

CLEAY, D. J.
Effect of Bleached Kraft Mill Effluent on the Survival of Starved Juvenile Coho Salmon (Oncorhynchus Kisutch),
W76-05710 9-12 5C

Sensitivity of Blood Cell Counts in Juvenile Coho Salmon (Oncorhynchus Kisutch) to Stressors Including Sublethal Concentrations of Pulp Mill Effluent and Zinc,
W76-05696 9-12 5C

CLEISH, W.
Measurements of Wind-Driven Flow Profiles in the Top Millimeter of Water,
W76-01260 9-03 2H

CLELLON, W.
Effective Use of High Water Table Areas for Sanitary Landfill. Vol. II,
W76-05744 9-12 5G

CLEOD, A. I.
Intervention Analysis in Water Resources,
W76-03165 9-07 2E

CLEOD, B. R.
Application of Microwave Water Sensing Techniques to Watersheds,
W76-00675 9-02 7B

CLEOD, C. L.
Experiments Related to Directing Atlantic Salmon Smolts, Saimo Salar, Around Hydroelectric Turbines,
W76-07495 9-15 8I

CLEOD, R. S.
A Digital-Computer Model for Estimating Drawdowns in the Sandstone Aquifer in Dane County, Wisconsin,
W76-02498 9-05 4B

A Digital-Computer Model for Estimating Hydrologic Changes in the Aquifer System in Dane County, Wisconsin,
W76-05851 9-12 2F

CLUSKY, D.
Intertidal Fauna of the Industrialized Forth Estuary,
W76-11818 9-22 5C

CMAHON, J. W.
Effects of Heat Enrichment on Species Succession and Primary Production in Fresh-Water Plankton,
W76-08879 9-17 5C

MCMAHON, R. F.
Effects of Artificially Elevated Water Temperatures on the Growth, Reproduction and Life Cycle of a Natural Population of Physa Virgata Gould,
W76-03020 9-07 5C

MCMAHON, T. A.
Predictive Use of Catchment Outputs,
W76-04145 9-09 4A

Urban Water Use in Australia,
W76-03272 9-07 6D

MCMAHON, T. S.
Development of a High Seas Oil Recovery System, Phase II, Appendix I. Design Studies and Specifications,
W76-01225 9-03 5G

Development of a High Seas Oil Recovery System, Phase II, Appendix II. Materials and Component Tests,
W76-01226 9-03 5G

Development of a High Seas Oil Recovery System, Phase II, Appendix III. System Tests,
W76-01227 9-03 5G

MCMANUS, D. A.
Continuous Light-Scattering Profiles and Suspended Matter Over Nitinat Deep-Sea Fan,
W76-03886 9-08 2L

MCMANUS, R. J.
The New Treaty on Vessel Pollution,
W76-10748 9-20 6E

MCMASTER, G. M.
Mixing in Sprinkler Irrigation Systems,
W76-00834 9-02 3F

MCMASTER, W. M.
Nonpoint Source Mineral Water Quality Model,
W76-02922 9-06 5B

MCMILLAN, H.
Using Wastewater Solids to Reclaim Strip-Mined Land,
W76-06287 9-13 5G

MCMILLAN, M. C.
Evaluation of ERTS Data for Certain Hydrological Uses,
W76-08147 9-16 7C

Remote Sensing or Snowpack Density Using Shortwave Radiation,
W76-12167 9-23 2C

MCMILLIN, L. M.
Estimation of Sea Surface Temperatures from Two Infrared Window Measurements with Different Absorption,
W76-04694 9-10 2L

MCMILLION, L. G.
Legal Requirements for Monitoring Groundwater Quality,
W76-10656 9-20 5G

MCMINN, J. W.
First-Year Water Yield Increase After Forest Cutting: An Alternative Model,
W76-08362 9-16 4C

MCMORDIE, W. C.
Handling and Treatment of Oil-Base Drilling Muds,
W76-08913 9-17 8G

MCMURRAY, G.
Summer Phytoplankton Photosynthesis in a Northeastern Ohio Glacial Lake,
W76-08828 9-17 5C

MCMURTRY, G. J.
Interdisciplinary Applications and Interpretation of EREP Data Within the Susquehanna River Basin,
W76-13188 9-24 7B

The Penn State Orser System for Processing and Analyzing ERTS Data,
W76-02060 9-05 7C

MCNABB, C. D.
Dynamics of Hazardous Elements in Wastewater Ponds,
W76-02867 9-06 5D

Eurasian Water-Milfoil in Michigan,
W76-06149 9-12 5G

MCNABB, C. G.
Water Pollution Laws and Regulations,
W76-01375 9-03 5G

MCNALLAN, M. J.
High-Gradient Magnetic Filtration of Steel Plant Waste Water,
W76-08710 9-16 5D

MCNAMARA, J. R.
An Optimization Model for Regional Water Quality Management,
W76-08104 9-16 5G

MCNAUGHT, D. C.
Discussion (Of, 'Interdisciplinary Modeling of Limnological Aspects of the Great Lakes' by L. T. Crook),
W76-00068 9-01 2H

Lake George Site Synthesis, 1974-1975.
W76-12937 9-24 5C

Zooplankton Production in Lake Ontario as Influenced by Environmental Perturbations,
W76-02502 9-06 5C

MCNEIL, W. R.
Optical Properties of the Great Lakes,
W76-11440 9-21 2H

MCNELLIS, J. M.
Physical and Climatic Characteristics Along Kansas Streams,
W76-06450 9-13 7C

MCNOWN, J. S.
Hydraulic Design Criteria for Inland Waterways,
W76-05254 9-11 8B

MCNULTY, J. T.
Removal and Recovery of Phenols from Industrial Waste Effluents with Amberlite XAD Polymeric Adsorbents,
W76-12487 9-23 5D

MCNULTY, K. J.
Reverse Osmosis Treatment of Electroplating Wastes,
W76-03066 9-07 5D

Treatment of Army M U S T Field Hospital Wastewater for Water Reuse,
W76-11270 9-21 5D

MCPARTLAND, E. J.
Institutional Behavior Concerning River Basin Management Legislation,
W76-01682 9-04 6E

MCPARTLAND, J. T.
Field Observations of the Persistence of AgI-NH4I-Acetone Ice Nuclei in Daylight,
W76-05677 9-12 3B

MCPHERSON, B. F.
Water and the South Florida Environment,
W76-03402 9-07 5C

MCPHERSON, M. B.
ASCE Urban Water Resources Research Program,
W76-02939 9-06 2A

Household Water Use,
W76-05353 9-11 6D

Special Characteristics of Urban Hydrology,
W76-04138 9-09 2A

MCQUIVEY, R. S.
Application of Simple Dam Break Routing Model,
W76-11084 9-20 8B

Principles and Measuring Techniques of Turbulence Characteristics in Open-Channel Flows,
W76-10134 9-19 8B

Simplified Routing of Dam Break Waves,
W76-11085 9-20 4A

MCROBERTS, F.
The Design and Operation of an Open-Front, Slotted Floor Beef Confinement Building,
W76-00447 9-01 5D

MCROY, C. P.
Nitrogen Kinetics in Aquatic Plants in Arctic Alaska,
W76-04583 9-10 5C

MCSWEENEY, G.
Effect of Phosphorus and Sulphursphates on Movement of Phosphorus and Sulphur in Two Soils,
W76-06242 9-13 2G

MCVOY, R. A.
Coastal Boundary Litigation with the State: A Frame of Reference,
W76-07804 9-15 6E

MCWHIRTER, J. R.
Integral Circular Wastewater Treatment Process,
W76-11222 9-21 5D

MCWHORTER, D. B.
On Land Disposal of Liquid Organic Wastes Through Continuous Subsurface Injection,
W76-07203 9-14 5D

Potential of Mine and Mill Spoils for Water Quality Degradation,
W76-06949 9-14 5B

Salt Transport in Soil Profiles with Application to Irrigation Return Flow, The Dissolution and Transport of Gypsum in Soils,
W76-05836 9-12 5B

Upconing of the Salt-Water--Fresh-Water Interface Beneath a Pumping Well,
W76-00295 9-01 4B

Vertical Flow of Air and Water with a Flux Boundary Condition,
W76-09251 9-17 2G

Water Quality Control in Mine Spoils, Upper Colorado River Basin,
W76-01870 9-04 5G

MCWHORTER, J. C.
Transportation of Solids by Water in Pipelines,
W76-10806 9-20 8B

MCWHORTER, T. R.
Waste Treatment for the Pabst Brewery at Perry, Georgia,
W76-01640 9-04 5D

MEAD, J. T.
Late Pleistocene and Modern Plant Communities of Shinumo Creek and Peach Springs Wash, Lower Grand Canyon, Arizona,
W76-09074 9-17 2I

MEADOWS, B. S.
Toxicity of Rotenone to Some Species of Coarse Fish and Invertebrates,
W76-01534 9-04 5C

MEADOWS, J. W. T.
Procedure for Plutonium Analysis of Large (100 g) Soil and Sediment Samples,
W76-08613 9-16 5A

MEARES, P.
Membrane Processes for Water Treatment, Conclusion,
W76-00241 9-01 3A

MEARNS, A. J.
Disease Responses in Southern California Coastal Fishes,
W76-10366 9-19 5C

MECKLENBURG, R.
Overwintering of Evergreens in Plastic Structures,
W76-06014 9-12 2I

MEDAGLIA, C. C.
The Use of Diatoms and Bacteria as Biological Indicators of Pollution in Streams, (In Portugese),
W76-12318 9-23 5A

MEDEIROS, G. C.
Evaluation of Some Methods of Analysis for Petroleum Hydrocarbons in Marine Organisms,
W76-00320 9-01 5A

Idoe-5 Intercalibration Sample: Results of Analysis After Sixteen Months Storage,
W76-10399 9-19 5A

MEDINA, M. A.
Urban Stormwater Management Modeling and Decision-Making,
W76-00695 9-02 5D

Urban Stormwater Management Modeling and Decision-Making,
W76-11599 9-21 5D

MEDINSKII, G. M.
Ecology of Cholera Vibrios, (In Russian),
W76-09409 9-18 5C

MEDLAR, S.
Economizing in Design Without Sacrificing Quality,
W76-00208 9-01 5F

Pioneering in Water Filtration,
W76-06278 9-13 5F

MEDVEDEV, M. I.
Control of Coagulant Recovery from Effluent Sediment (Kontrol' regeneratsii koagulyantov iz osadka ctochnykh vod),
W76-05725 9-12 5E

Water Purification Coagulant Production,
W76-02839 9-06 5D

MEDVEDEV, P. M.
Structure of Water in the Cell: Review of Literature, (In Russian),
W76-10974 9-20

MEDVEDEV, S. I.
Data on the Study of Amphibian Food in Region of the Middle Flow of the Sever Donets River, (In Russian),
W76-07271 9-14

MEE, T. R.
Research and Development of an Airbo Hygroscopic Spray System,
W76-08111 9-16

MEEHAN, W. R.
Comparative Effectiveness of the Stand Surber Sampler and a Hydraulic Modificat for Estimating Bottom Fauna Populations,
W76-05613 9-12

Effects of Forest Fertilization on T Southeast Alaska Streams,
W76-05612 9-12

Effects of Forest Fertilization on T Southeast Alaska Streams,
W76-08673 9-16

MEEK, B. D.
Redox Potential in Irrigated Desert Soils as Indicator of Aeration Status,
W76-09488 9-18

MEEKS, D. C.
Development of a Prototype Airborne Oil S veillance System, Final Report,
W76-09898 9-18

MEEKS, W.
Entrainment Studies on Hudson River Org isms,
W76-08633 9-16

MEENAGHAN, G. F.
Cattle Feedlot Pollution Study,
W76-01045 9-03

A Systems Approach to Cattle Feedlot Pol tion Control,
W76-00446 9-01

MEENAHAN, J. G.
Evaluation of In-Line and Side-Line Fl Equalization Systems,
W76-06348 9-13

MEGAHAN, W. F.
Erosional Effects of Wildfire and Logging Idaho,
W76-07027 9-14

Sediment Storage in Channels Draining Sm Forested Watersheds in the Mountains of Ce tral Idaho,
W76-07019 9-14

Sedimentation in Relation to Logging Activiti in the Mountains of Central Idaho,
W76-07020 9-14

Time Trends in Riverbed Sediment Compos tion in Salmon and Steelhead Spawning Area South Fork Salmon River, Idaho,
W76-07018 9-14

MEGHJI, M. H.
Water Quality Model for Small Agricultur Watershed,
W76-06641 9-13

HOUDAR, R.
rip Level Irrigation,
/76-09870 9-18 3F

HRAN, M.
omputer Modeling of Nitrogen Transforma-
ons in Soils,
/76-00831 9-02 2G

HRLE, P. M. JR.
oxaphene Effects on Reproduction, Growth,
nd Mortality of Brook Trout,
/76-07248 9-14 5C

HROTRA, S. C.
ptimization of Evaporation Pond Cost,
/76-07147 9-14 5D

ome Theoretical Considerations in Reservoir
esign,
/76-08518 9-16 8B

EHSHYTHYH, V. V.
bstract Models of Communities of Aquatic
nimals,
/76-08218 9-16 8I

bstract Models of Fish Populations,
/76-08215 9-16 8I

Models of Actual Communities,
/76-08219 9-16 8I

Models of Actual Fish Populations,
/76-08216 9-16 8I

Models of Populations of Aquatic Inver-
ebrates,
/76-08217 9-16 8I

Theoretical Bases of Modelling of Populations
and Communities of Aquatic Animals,
/76-08214 9-16 8I

EHSHYTKYH, V. V.
Development Trends in Methods used to Model
Populations and Communities,
/76-08212 9-16 8I

Development Trends in Methods Used to
Model Populations and Communities,
/76-08213 9-16 8I

EHTA, A. J.
Hydraulic Constants of Tidal Entrances, II:
Stability of Long Island Inlets,
/76-01836 9-04 2L

An Investigation of the Depositional Properties
of Flocculated fine Sediments,
/76-04684 9-10 2J

EHTA, I.
Studies on Evapotranspiration of Some Aquatic
Weeds,
/76-10554 9-20 2D

EHTA, K.
Toxicity of Insecticides (Commercial Formula-
tions) to the Exotic Fish, Common Carp Cyr-
pinus Carpio Communis Linnaeus,
/76-07699 9-15 5C

EHTA, P. K.
Durability of Concrete in Seawater,
/76-07218 9-14 8F

EHTA, P. R.
Salt Water Intrusion into Porous Media,
/76-00614 9-02 2L

MEHTA, Y. M.
Suspended Solids Removal from Woodroom
Effluent,
W76-09289 9-17 5D

MEHUYS, G. R.
Response to Three Semidwarf Mexican Wheats
to Different Aeration Conditions in the Rooting
Medium at a Constant Salinity Level,
W76-00710 9-02 3C

MEI, C. C.
Hybrid-Element Method for Water Waves,
W76-09945 9-18 8B

MEIDL, J. A.
Filter Cleaning Method,
W76-05974 9-12 5F

MEIER, H.
In Regard to the Question of the Determination
of Heavy Metals in River Waters with the Aid
of Radionuclide X-Ray Fluoresence Analysis,
(In German),
W76-06619 9-13 5A

MEIER, M. F.
Application of Remote-Sensing Techniques to
the Study of Seasonal Snow Cover,
W76-03389 9-07 2C

Applications of ERTS Imagery to Snow and
Glacier Hydrology,
W76-03902 9-08 2C

A Comparison of Glacier Mass Balance by
Glaciological, Hydrological and Mapping
Methods, South Cascade Glacier, Washington,
W76-07125 9-14 2C

Glacier Applications of ERTS Imagery,
W76-03390 9-07 2C

Glaciology,
W76-07130 9-14 2C

Measurement of Snowpack Wetness,
W76-12162 9-23 2C

New Ways to Monitor the Mass and Areal Ex-
tent of Snow Cover,
W76-03391 9-07 2C

Snow Wetness Measurements for Melt
Forecasting,
W76-12165 9-23 2C

MEIER, P. M.
Hydraulic Collection and Disposal of Refuse,
W76-11138 9-21 5D

Land-Use Model For Service Area Projection,
W76-08226 9-16 5G

Technical and Economic Optimization of Re-
gional Wastewater Management (Technische
und Wirtschaftliche Operimierung Bei Der Bil-
dung von Zweckverbaenden zur Abwasser-
beseitigung),
W76-01277 9-03 5G

MEIJER, G.
Effects of Irrigation and Fertiliser on the
Yields of 'Arawa', 'Aotea', and 'Karamu'
Wheats,
W76-00151 9-01 3F

MEIJERING, M. P. D.
The Effect of Domestic Waste Water on the
Distribution of Gammarus Pulex L. and Gam-
marus Fossarum Koch in a Sub-Alpine Moun-
tain Stream in Hessen, (In German),
W76-12304 9-23 5C

MEIJERS, A. P.
The Occurrence of Organic Micropollutants in
the River Rhine and the River Maas in 1974,
W76-12988 9-24 5A

MEIN, R. G.
An Evaluation of Three Rainfall-Runoff
Models,
W76-01419 9-03 2A

MEINEL, A. B.
Environmental Aspects of Solar Energy Appli-
cations,
W76-00755 9-02 3E

MEINEL, M. P.
Environmental Aspects of Solar Energy Appli-
cations,
W76-00755 9-02 3E

MEINERS, A. E.
Production, Distribution, Use and Environmen-
tal Impact Potential of Selected Pesticides,
W76-02316 9-05 5C

MEINERS, A. F.
Guidelines for the Disposal of Small Quantities
of Unused Pesticides,
W76-01875 9-04 5D

MEINHOLZ, T. L.
An Application of the Storm Water Manage-
ment Model,
W76-09738 9-18 5D

MEINTS, V. W.
Natural (15)N Abundance in Soil, Leaves, and
Grain as Influenced by Long Term Additions of
Fertilizer N at Several Rates,
W76-08765 9-17 3F

MEISKE, J. C.
Influence of an Antibiotic on the Performance
of Yearling Holstein Steers,
W76-04434 9-09 5C

MEJIA, J. M.
Disaggregation Models in Hydrology Revisited,
W76-09573 9-18 2A

MEL'CHANOV, V. A.
Snow Accumulation and Melting in the Forest
and in Clear-Cut Areas in the Central Ural,
W76-05929 9-12 2C

MEL'NIKOV, I. A.
Fine-Dispersed Fraction of Suspended Organic
Matter in the East Pacific Waters, (In Russian),
W76-08314 9-16 5C

MELACK, J. M.
Photosynthetic Rates of Phytoplankton in East
African Alkaline, Saline Lakes,
W76-06742 9-13 5C

MELCHER, A. G.
A Land Use Decision Methodology for En-
vironmental Control,
W76-00683 9-02 6B

MELESHKO, G. I.
Use of Main Canals and Regulating Reservoirs
of Irrigation Systems for Rural Drinking Water
Supply, (In Russian),
W76-02951 9-06 4A

MELHORN, N.
Hydrogeology of Glacial Deposits in Tip-
pecanoe County, Indiana, Systematic Develop-
ment of Methodologies in Planning Water
Resources in Medium Size Communities,
W76-01521 9-04 2F

MELHORN, W. N.
Systematic Development of Methodologies in Planning Urban Water Resources for Medium Size Communities. Phase I. Final Report,
W76-11175 9-21 6B

MELLON, E. F.
Effect of Flocculants on the Sedimentation of Organic Solids in Tannery Unhairing Effluents,
W76-08164 9-16 5D

MELLOR, G. L.
The Structure and Dynamics of the Ocean Surface Mixed Layer,
W76-03733 9-08 2L

MELLOR, M.
Accumulating Snow to Augment the Fresh Water Supply at Barrow, Alaska,
W76-01323 9-03 2C

MELNICK, J. L.
Environmental Factors Influencing Isolation of Enteroviruses from Polluted Surface Waters,
W76-12171 9-23 5A

Fate of Wastewater Bacteria and Virsuses in Soil,
W76-03251 9-07 5B

Sterilization of Holding Tanks and Toilet Bowls by Quaternary Compounds,
W76-08201 9-16 5D

Virus Removal and Inactivation by Physical-Chemical Waste Treatment,
W76-07999 9-15 5D

Viruses in Water: The Problem, Some Solutions,
W76-07006 9-14 5A

MELNYK, P. B.
A Simulation Model for Phosphorus Waste Discharges in the Lake Erie Basin,
W76-11317 9-21 5B

MELVASALO, T. L.
Inshore Effect of Pollution on the Biota of the Baltic, Southern Finland,
W76-08791 9-17 5C

MELVIN, P.
Oil Spill and Oil Pollution Reports February 1975 - April 1975,
W76-01873 9-04 5G

Oil Spill and Oil Pollution Reports November 1974 - February 1975,
W76-01872 9-04 5G

Oil Spill and Oil Pollution Reports, November 1974 - February 1975,
W76-09896 9-18 5A

MELVIN, S. W.
Design Considerations in Feedlot Runoff Control,
W76-11039 9-20 5D

Field Performance of Selected Beef Feedlot Waste Handling Systems,
W76-01040 9-03 5E

Monitoring on-farm waste management systems.
W76-00914 9-02 5D

The State and Regional Situation,
W76-11034 9-20 5D

MELZER, S. F.
Limestone Treatment of Rinse Waters from Hydrochloric Acid Pickling of Steel,
W76-01641 9-04 5D

MEMOLI, S. J.
Deep Sea Tank and Seaport System,
W76-11841 9-22 8C

MENDEL, O.
About the Problem of Direct Runoff Determination by Separation of the Hydrograph Components (K Otazke Urcenia Primaeho Odtoku Separaciou Prietokovych Vln),
W76-08238 9-16 2A

MENDOZA, B.
Procedure for Plutonium Analysis of Large (100 g) Soil and Sediment Samples,
W76-08613 9-16 5A

MENG, J. C.
Water-Recycle Washing of Refined Soybean Oil: Plant Scale Evaluation,
W76-08171 9-16 3E

MENHINICK, E. F.
Plankton Populations,
W76-05873 9-12 5C

MENIER, G.
Suspended Solids Removal from Woodroom Effluent,
W76-09289 9-17 5D

MENNELLA, R. A.
Comparison of Sea-Ice Type Identification Between Airborne Dual-Frequency Passive Microwave Radiometry and Standard Laser/Infrared Technique,
W76-05388 9-11 7B

MENON, P. K.
Water Resources Development of International Rivers with Special Reference to the Developing World,
W76-06486 9-13 4A

MENTZ, J. W.
Up-Dip Versus Down-Dip Mining, An Evaluation,
W76-01868 9-04 5G

MENZEL, B. W.
A Study of the Effects of Stream Channelization and Bank Stabilization on Warmwater Sport Fish in Iowa: Subproject 5: Effects of Long-Reach Stream Channelization on Distribution and Abundance of Fishes,
W76-12230 9-23 4C

MENZEL, D.
Conclusion and Recommendations Conference/Workshop,
W76-11485 9-21 6G

Overview of Conference Programs,
W76-11481 9-21 6G

MENZEL, R. G.
Land Surface Erosion and Rainfall as Sources of Strontium-90 in Streams,
W76-00830 9-02 5B

Nutrient and Sediment Discharge from Agricultural Watersheds in Oklahoma,
W76-01116 9-03 2A

MENZIES, D.
Particle Size Distributions in a Region of Coastal Upwelling Analyzed by Characteristic Vectors,
W76-02697 9-06 5B

MENZIES, J. D.
Trench Incorporation of Sewage Sludge in M
ginal Agricultural Land,
W76-02072 9-05

MERCADO-BURGOS, N.
Effect of Halogens and Ozone on Schistoso
Ova,
W76-03252 9-07

MERCER, J. W.
Simulation of Water-and Vapor-Domina
Hydrothermal Reservoirs,
W76-00087 9-01

MERCER, J. W. JR.
Galerkin Finite-Element Simulation of
Geothermal Reservoir,
W76-01179 9-03

MERCER, L. J.
Reassessment of the Cross-Florida Ba
Canal: A Probability Approach,
W76-08228 9-16

The Weibull Probability Assignm
Technique: An Application to Benefit-C
Analysis,
W76-01331 9-03

MERCER, W. B.
Chemical Problems Encountered in Toxic
Studies,
W76-10364 9-19

MERCHANT, P.
Treatment of Process Water,
W76-05119 9-11

MERCIER, H. T.
A Six-Year Water, Phosphorus, and Nitrog
Budget for Shagawa Lake, Minnesota,
W76-08674 9-16

MERCIER, M. A.
Canadian Water Resources Information:
Network Approach,
W76-05952 9-12 1

MEREDITH, D. D.
Chloride Build-Up and Control in Lake Erie,
W76-11318 9-21

Chloride Management in Lake Erie Basin,
W76-11114 9-21

Screening Model For Conjunctive-Use Wa
Systems,
W76-05268 9-11

MEREFIELD, J. R.
Major and Trace Element Anomalies in Strea
Sediments of the Teign Valley Orefield,
W76-03303 9-07

MEREZHKO, A. I.
Change of Some Physiological and Biochemi
Indices of Phragmites Communis Trin. w
Different Mineral Nutrition Under Experime
tal Conditions, (In Russian),
W76-02942 9-06

MERKEL, J. A.
Feasibility of Chlorinating Feedlot Runoff
Meet Bacterial Water Quality Standards,
W76-11334 9-21

MERLE, M.
Method and Apparatus for Compacting Flu
Sludges,
W76-04278 9-09

ERLIVAT, L.
Isotopic Study of Hail,
W76-05665 9-12 2B

ERLUZZI, D.
Regulations and Environmental Investigations Associated with Nuclear Station Thermal Discharges,
W76-08886 9-17 5G

ERON, T.
The Fishermen's Protective Act: A Case Study in Contemporary Legal Strategy of the United States,
W76-04343 9-09 6E

ERRA BAI, B.
Factors in the Purification of Flowing Sewage and Activated Sludge Process, Part I,
W76-05795 9-12 5D

ERRELL, W. J. JR.
Movement of Surface Drifters in the American Mediterranean,
W76-00907 9-02 2L

ERRILL, D. T.
Lime-Induced Reactions in Municipal Wastewaters,
W76-05597 9-12 5D

ERRILL, E. W.
Biological Effects of High-Energy Electron Irradiation of Municipal Sludge,
W76-09522 9-18 5C

Prospects for High-Energy Electron Irradiation of Waste-Water Liquid Residuals,
W76-09538 9-18 5D

ERRILL, J. A.
Resistance of a Northwestern Crayfish, Pacifastacus Leniusculus (Dana) to Elevated Temperatures,
W76-01907 9-04 5C

ERRINER, J. V.
Survival and Growth of Juvenile Striped Bass, Morone Saxatilis, in a Factorial Experiment with Temperature, Salinity, and Age,
W76-02390 9-05 5C

ERRITT, M. L.
Proposed Cross-Florida Barge Canal: Water-Quality Aspects, with a Section on Waste-Assimilative Capacity,
W76-12283 9-23 5G

ERROW, R. L.
Salinities of Ambient and Interstitial Waters of Some Massachusetts North Shore Salt-Marshes,
W76-06158 9-13 5B

ERSON, M. H.
Epidemiology of Waterborne Disease in the United States 1971-1973,
W76-03426 9-07 5F

An Outbreak of Shigella Sonnei Gastroenteritis on Colorado River Raft Trips,
W76-07691 9-15 5C

Outbreaks of Waterborne Disease in the United States, 1971-1972,
W76-06138 9-12 5C

ERTENS, E. W.
A Literature Review of the Biological Impact of Oil Spills in Marine Waters,
W76-11027 9-20 5C

MERTENS, M.
Trace Metals and Pollution of the Belgian Coast and of the Schelt Estuary, (In French),
W76-12260 9-23 5A

MERWIN, H. T.
Model Flood Plain Zoning Ordinance (Ohio),
W76-05227 9-11 6F

MESAROVIC, M. M.
Waste-Heat Disposal from Steam Electric Plants with Reference to the Stochastic Nature of Some Environmental Conditions and to Thermal Pollution Control Regulations,
W76-08865 9-17 5G

MESHITSUKA, G.
Studies on Coagulation Treatment of Spent Water from Pulping Process. Part 2. Coagulation Characteristics of Hemicellulose (In Japanese),
W76-10839 9-20 5D

MESHKOVA, O. V.
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W76-07544 9-15 5A

MESMER, R. E.
Studies on Vaporization and Halogen Decomposition of Methyl Mercury Compounds Using GC with a Microwave Detector,
W76-03638 9-08 5A

MESTROV, M.
The Influence of Grass-Carp Population (Ctenopharyngodon Idella Val.) on the Vegetation and Ecosystem of Lake Trakoscan, (In Serbo-Croatian),
W76-12272 9-23 5C

METCALF, R. L.
Development of Laboratory Model Ecosystems as Early Warning Elements of Environmental Pollution,
W76-09643 9-18 5C

Model Ecosystem Studies of Lead and Cadmium and of Urban Sewage Sludge Containing These Elements,
W76-07013 9-14 5C

METCALF, T. G.
Environmental Factors Influencing Isolation of Enteroviruses from Polluted Surface Waters,
W76-12171 9-23 5A

METLER, W. A.
Release Control Policy for a Large Lake Subject to Wind Waves,
W76-06421 9-13 4A

METRY, A. A.
The Fate of Pollutants in Subsurface Environments,
W76-10253 9-19 5B

METTERS, B.
Interferences in the Electroanalytical Determination of Copper and Lead in Water and Waste Water,
W76-05045 9-11 5A

METTERS, C.
Interferences in the Electroanalytical Determination of Copper and Lead in Water and Waste Water,
W76-05045 9-11 5A

METZLER, D. F.
States Role in Formulating Control Strategy,
W76-11408 9-21 5G

Two Trillion or Three: The Cost of Water Quality Goals,
W76-07686 9-15 5G

MEURER, R. W.
Mineral Resource Management of the Outer Continental Shelf.
W76-09306 9-17 6G

MEWES, A. R.
Process for the Treatment of Mineral Slimes,
W76-05973 9-12 5D

MEYBECK, M.
Quality Variations of the Mekong River At Phnom Penh, Cambodia, and Chemical Transport in the Mekong Basin,
W76-03745 9-08 5A

MEYER, B.
Preparation of Polyester Jacketed Soil Columns as Penetration, Suction Plate and Groundwater Lysimeters, (In German),
W76-07272 9-14 2G

Study of the Removal of Phosphate from Waste Water by Lime (Untersuchungen Zur Abwasserentphosphatung Durch Einsatz Von Kalk),
W76-06999 9-14 5D

MEYER, C. F.
An Application of Discriminant Analysis to Determine the Demand for Industrial Flood Plain Location,
W76-03283 9-07 6F

Status Report on Heat Storage Wells,
W76-11701 9-22 5G

MEYER, E. R.
Public Law 92-500-- Water Quality Analysis and Environmental Impact Assessment, Technical Report (Volume I),
W76-11806 9-22 5G

Public Law 92-500--Water Quality Analysis and Environmental Impact Assessment, Technical Report, Volume II,
W76-11807 9-22 5G

MEYER, F. P.
Parasites of Freshwater Fishes. A Review of their Control and Treatment,
W76-05953 9-12 2H

MEYER, F. W.
Ground-Water Quality at the Site of a Proposed Deep-Well Injection System for Treated Wastewater, West Palm Beach, Florida,
W76-11681 9-22 5A

MEYER, G.
Groundwater,
W76-11066 9-20 2F

MEYER, G. J.
Sediment Yields from Roadsides: An Application of the Universal Soil Loss Equation,
W76-12206 9-23 4C

MEYER, J. H.
Mechanical-Draft Cooling Tower Visible Plume Behavior: Measurements Models, Predictions,
W76-04817 9-10 5B

MEYER, J. L.
Manure Holding Ponds found Self-Sealing,
W76-04428 9-09 5D

MEYER, J. L.

Manure Waste Ponding Study,
W76-01038 9-03 5D

MEYER, K. A.
Influence of Nutrient Availability on Ecosystem Structure,
W76-10324 9-19 5C

MEYER, L. D.
Effect of Flow Rate and Canopy on Rill Erosion,
W76-03861 9-08 2J

Overview of the Urban Erosion and Sedimentation Processes,
W76-09731 9-18 4C

Physical-Chemical Composition of Eroded Soil,
W76-13010 9-24 2J

MEYER, M.
Mathematical Model for the Filling Process of the Retention Basin Stoehna (Mathematisches Modell fuer den Fuellvorganic des Hochwasser-Rueckhaltebeckens Stoehna),
W76-01054 9-03 2E

MEYER, M. E.
Behavioral Thermoregulation in Hypophysectomized and Sham-Operated Rainbow Trout, Salmo Gairdneri,
W76-12755 9-24 5C

MEYER, M. P.
Forest Vegetation Classification and Management,
W76-02904 9-06 4A

MEYER, P.
The Scientist and Decision Making at Lake Tahoe,
W76-07795 9-15 6B

MEYER, W. R.
Digital Model for Simulated Effects of Ground-Water Pumping in the Hueco Bolson, El Paso Area, Texas, New Mexico, and Mexico,
W76-10140 9-19 4B

MEYERHOFF, R. D.
Acute Toxicity of Benzene, A Component of Crude Oil, to Juvenile Striped Bass (Morone Saxatilis),
W76-03049 9-07 5C

MEYERS, G.
Seasonal Variation in Transport of the Pacific North Equatorial Current Relative to the Wind Field,
W76-00906 9-02 2L

MEYERS, R. O.
Computer Halts Flooding Complaints,
W76-12905 9-24 5D

MEYRATH, J.
Production of Feed Yeast from Liquid Waste,
W76-05112 9-11 5D

MEZZADRI, M. G.
Radioactivity in the Mediterranean Sea, (In Italian),
W76-11558 9-21 5A

MGEN, V. A.
On the Applicability of the BOD Parameter to the Characterization of Coking Plant-Generated Effluents (K voprosu o priyemlemosti pokazatelva BPK dlya kharakteristiki stochnykh vod koksokhimicheskikh zavodov),
W76-07532 9-15 5D

MICHAEL, A. D.
Long-Term Effects of an Oil Spill at West Falmouth, Massachusetts,
W76-00146 9-01 5C

MICHAEL, R. P.
Optimization of Denitrification Process,
W76-07225 9-14 5D

MICHALAK, M.
Industrial Waste Treatment System Reduces Pollution,
W76-08711 9-16 5D

MICHALOVIC, J. G.
Methods to Treat, Control and Monitor Spilled Hazardous Materials,
W76-01869 9-04 5G

Sources of Pollution From Military Installations, Part II,
W76-01763 9-04 5B

MICHALSKI, M. F. P.
Reclamation of Acidified Lakes - Middle and Lohi, Sudbury, Ontario,
W76-09108 9-17 5G

MICHALSON, E. L.
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W76-00076 9-01 3D

A Methodology for Evaluating Development-Environmental Conflicts on Wild and Scenic Rivers,
W76-11707 9-22 6G

MICHEL, B.
Pressures of Thermal Origin Exerted by Ice Sheets upon Hydraulic Structures,
W76-11750 9-22 2C

MICHEL, H.
Denver Seeks Tomorrow's Water Today,
W76-01779 9-04 4A

MICHEL, P.
Efficiency of Oil Spill Removers,
W76-01232 9-03 5D

MICHELLEPIS, C. P.
Growth Kinetics of Heterogeneous Microbial Populations and the Modelling of Biological Waste Treatment Reactors,
W76-02566 9-06 5D

MICIC, O. I.
Radiation Chemical Destruction of Phenol in Oxygenated Aqueous Solutions,
W76-09530 9-18 5D

MIDDAUGH, D. P.
The Response of Larval Fish, Leiostomus Xanthurus, to Environmental Stress Following Sublethal Cadmium Exposure,
W76-12732 9-24 5C

A Review of the Impact of Chlorination Processes Upon Marine Ecosystems,
W76-12890 9-24 5C

MIDDAUGH, P.
Agricultural Runoff Pollutes Surface Waters, Part I,
W76-02694 9-06 5B

Agricultural Runoff Pollutes Surface Waters, Part I,
W76-03719 9-08 5A

Bacteriological Quality of Surface Run
From Agricultural Land, Part II,
W76-02695 9-06

MIDDAUGH, P. R.
Bacteriological Water Quality Methods
Determining Ruminant Fecal Pollution,
W76-00380 9-01

MIDDELBURG, R. F.
Occurrence of Arsenic in the Dry Creek Ba
Sonoma County, California,
W76-13068 9-24

MIDDLEBROOKS, E. J.
Biomass Distribution and Kinetics of Baff
Lagoons,
W76-05590 9-12

Comparison of Semi-Continuous and Conti
ous Flow Bioassays,
W76-06705 9-13

Effects of Temperature on Oil Refinery Wa
Toxicity,
W76-03786 9-08

Effects of Temperature on Oil Refinery Wa
Toxicity,
W76-12711 9-24

Intermittent Sand Filters for Upgrading Lag
Effluents,
W76-00257 9-01

Intermittent Sand Filtration to Upgrade Lag
Effluents--Preliminary Report,
W76-07051 9-14

Organic Residue in Recycled Effluent, Part
W76-00646 9-02

Separation of Algae Cells from Wastewa
Lagoon Effluents by Soil Mantle Treatment,
W76-05321 9-11

Stabilization Pond Upgrading with Intermitt
Sand Filters,
W76-07050 9-14

MIDDLEBROOKS, J. E.
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and Characterization,
W76-03978 9-08

MIDDLETON, A. C.
Least Cost Design of Activated Slu
Systems,
W76-09638 9-18

MIDDLETON, W. M.
Analytical Quality Assurance for Trace
ganics Analysis by Gas Chromatography/M
Spectrometry,
W76-06648 9-13

MIDGLEY, D. C.
Design Flood Synthesis by Excess Rain Ro
ing,
W76-08075 9-15

MIDLIGE, F. H.
A Fin Rot Disease of Marine and Euryha
Fishes in the New York Bight,
W76-10524 9-20

MIELKE, L. N.
Control, Collection, and Disposal of Feed
Runoff,
W76-07167 9-14

Direct Land Disposal of Feedlot Runoff,
W76-07183 9-14

The Nitrogen Status Beneath Beef Cattle Feedlots in Eastern Nebraska,
W76-01381 9-03 5B

Riser Intake Designs for Feedlot Solids Collection Basins,
W76-12356 9-23 5D

Soil Water Nitrate Beneath a Broad-Basin Terraced Feedlot,
W76-03981 9-08 5B

IELUCH, J.
Pilot Scale Studies on Purification of Phenol Waste Waters by the Electrochemical Method (Badania Modelowe Oczyszczania Sciekow Fenolowych Metoda Elektrochemiczna),
W76-04782 9-10 5D

Studies of a Purification Model for Phenolic Wastes by Electrochemical Method (Badania Modelowe Oczyszczenia Sciekow Fenolowych Metoda Elektrochemiczna),
W76-05490 9-11 5D

IERA, F. R.
Distribution of Plutonium in Soil Particle Size Fractions of Liquid Effluent-Receiving Areas at Los Alamos,
W76-08160 9-16 5B

IFKOVIC, C. S.
Environmental Aspects--Sacramento Bank Protection,
W76-00621 9-02 4D

IFTAKHUTDINOVA, F. G.
Study of Self-Diffusion of Water and its Activation Energy in Cells of Different Plant Tissues, (In Russian),
W76-08429 9-16 2I

IGNIOT, C.
LCHF Coastal Sediment Modeling Techniques,
W76-10463 9-19 2L

IGNONE, N. A.
Engineers Can Exert Process Control Over Digester Inputs,
W76-05807 9-12 5D

IHALY, C.
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W76-03996 9-08 5B

IKAMI, E.
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W76-06997 9-14 5D

IKHAILENKO, L. E.
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W76-12302 9-23 5C

IKKOLA, I.
Heat Discharges into the Sea at the Olkiluoto Site: Laboratory Model Test Results and Reasons for Selected Arrangements,
W76-08858 9-17 5B

IKLAS, J. J.
Phosphorus Cycling in a Maryland Deciduous Forest Subjected to Various Levels of Mineral-Nutrient Loading,
W76-10313 9-19 5B

MIKULSKI, Z.
The Baltic Sea--A Semi-Enclosed Sea, As Seen by the Hydrologist,
W76-08130 9-16 2L

MILAGIN, A. F.
Method of Controlling the Process of Chemical Purification of Effluents (Sposob operataivnogo upravleniya protsessom khimicheskoi ochistki stochnykh vod),
W76-11389 9-21 5D

Process Control Method for the Chemical Purification of Wastewaters (Sposob operativnogo upravleniya protsessom khimicheskoy ochiskki stochnykh vod),
W76-07762 9-15 5D

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W76-02195 9-05 5A

MILBRINK, G.
Some Effects of Acidified Water on the Early Development of Roach (Rutilus Rutilus L.) and Perch (Perca Fluviatilis L.),
W76-10076 9-19 5C

MILCIC, S. B.
Development of Iron and Manganese Bacteria in Ranney Wells,
W76-03761 9-08 5B

MILES, D. L.
Water Intake Under Center-Pivots From Time-Varying Application Rates,
W76-00031 9-01 3F

MILES, J. H.
Use of Surface-Active Chemicals in Pump-Ashore Schemes and Suction Dredgers,
W76-08747 9-16 8C

MILETI, D. S.
Landslide Hazard in the United States: A Research Assessment,
W76-09781 9-18 6F

MILEY, W. W. II
Exotic Fishes in Fresh and Brackish Waters of Florida,
W76-07421 9-14 2I

MILFORD, B. L.
Stream Sediment Composition: An Aid to Water Quality Assessment,
W76-11367 9-21 5A

MILFORD, J. R.
Rainfall Trends in the West African Sahel,
W76-09269 9-17 2B

MILGRAM, J. H.
Evaluation of the Strength and Seakeeping Ability of Pollution Control Barriers,
W76-02929 9-06 5G

Floating Oil Barrier,
W76-08396 9-16 5G

MILIOS, P.
Water and Energy Required to Operate Coal Gasification Facilities and Waste Water Treatment Requirements,
W76-00751 9-02 6D

MILLBANK, P.
Second Attempt to Treat Anglia's Toxic Wastes,
W76-12632 9-23 5D

MILLEMANN, R. E.
Pathology of Acute Poisoning with the Insecticide Sevin in the Bent-Nosed Clam, Macoma Nasuta,
W76-09649 9-18 5C

MILLER, A. S.
The Water Pollution Control Act of 1972, Institutional Assessment, Enforcement, Volume I,
W76-10574 9-20 5G

The Water Pollution Control Act of 1972, Institutional Assessment, Enforcement Volume II,
W76-10575 9-20 5G

MILLER, B. S.
Epizootiology of Tumors in a Population of Juvenile English Sole (Parophrys Vetulus) From Puget Sound, Washington,
W76-03657 9-08 5C

MILLER, C.
Ultrafiltration Offers 'Good' Removal of Color, COD, BOD,
W76-07522 9-15 5D

MILLER, C. C.
Handbook of Forecasting Techniques,
W76-07062 9-14 6A

MILLER, D. C.
Development and Application of Criteria for Marine Cooling Waters,
W76-08885 9-17 5G

MILLER, D. E.
Effect of Daily Irrigation on Water Content and Suction Profiles in Soils of Three Textures,
W76-00697 9-02 2G

Management of Crusting Soils: Some Practical Possibilities,
W76-00518 9-02 2G

Modification of Soil Crusts for Plant Growth,
W76-00519 9-02 2G

Water Resources of West-Central Missouri,
W76-03401 9-07 7C

MILLER, D. L.
Temperature Selection in Brook Trout (Salvelinus Fontinalis) Following Exposure to DDT, PCB or Phenol,
W76-07714 9-15 5C

MILLER, D. W.
Ground-Water Pollution Problems in the Northwestern United States,
W76-10083 9-19 5B

MILLER, F. L.
Environmental Effects of Chromium and Zinc in Cooling-Water Drift,
W76-04822 9-10 5C

MILLER, G. A.
Ground-Water Resources in the Lompoc Area Santa Barbara County, California,
W76-12288 9-23 2F

MILLER, G. H.
An ERTS-1 Study of Coastal Features on the North Carolina Coast,
W76-13174 9-24 7B

MILLER, G. H.

Oil-Spill Detection System,
W76-02996 9-06 5A

MILLER, G. L.
Poultry Processing Plant Wastewater Disposal on Sod,
W76-06811 9-14 5D

MILLER, H. C.
Nonstructural Measures for Flood Plain and Flood Damage Management, with Application to the Connecticut River Basin Supplemental Flood Management Study,
W76-01345 9-03 6F

MILLER, J. B.
Map Showing Flood of April 1975, Lansing, Michigan,
W76-01189 9-03 2E

MILLER, J. D.
Characterization of Sulfide Mineral Surfaces in Froth Flotation Systems using Electron Spectroscopy for Chemical Analysis,
W76-10635 9-20 5D

MILLER, J. F.
Annotated Bibliography of NOAA Publications of Hydrometeorological Interest,
W76-03183 9-07 2B

Dimensionless Inlet Hydrograph Model,
W76-01256 9-03 2A

MILLER, J. M.
Application of ERTS Data to Resource Surveys of Alaska,
W76-02065 9-05 7C

MILLER, J. R.
The Salinity Effect in a Mixed Layer Ocean Model,
W76-06393 9-13 2L

MILLER, J. R. JR.
Determination of R-Z Relationships for Weather Radar Using Computer Optimization Techniques,
W76-06604 9-13 2B

The Potential for Rainfall Increases from Convective Clouds in the Northern Plains,
W76-06607 9-13 3B

MILLER JR, J. R.
Effects of Cloud Seeding on Summertime Precipitation in North Dakota,
W76-06603 9-13 3B

MILLER, M. C.
A Computer Simulation Technique for Oil Spills Off the New Jersey-Delaware Coastline,
W76-11940 9-22 5B

MILLER, M. R.
Groundwater Seepage and its Effect On Saline Soils,
W76-02639 9-06 2G

MILLER, P.
Ultrafiltration Offers 'Good' Removal of Color, COD, BOD,
W76-07522 9-15 5D

MILLER, P. C.
A Comparison of Short-Term Effects of Thermal Addition on Photosynthesis and Plant-Water Stress in Three Ecosystems,
W76-08884 9-17 5C

Potential Use of Vegetation to Enhance Cooling in Holding Ponds,
W76-02025 9-05 5C

Water Relations of Selected Species of Chaparral and Coastal Sage Communities,
W76-06259 9-13 3B

MILLER, R.
An Evaluation of Some Recreational, Demographic and Economic Impacts of Canyon Lake,
W76-05506 9-12 6B

MILLER, R. A.
Effects of Environmental Legislation of Cattle Feedlot Location,
W76-07159 9-14 5G

Hydrologic Effects of Storms of June 24-28, 1974 in Lee and Collier Counties, Florida,
W76-11077 9-20 4A

MILLER, R. B.
Automated Method for the Determination of Total and Inorganic Mercury in Water and Waste Water Samples,
W76-04756 9-10 5A

MILLER, R. D.
Tests of the Concept of Secondary Frost Heaving,
W76-07558 9-15 2C

Transport of Water and Heat in a Frozen Permeameter,
W76-10713 9-20 2G

MILLER, R. E.
Land Subsidence Due to Ground-Water Withdrawal in the Los Banos-Kettleman City Area, California: Part 1.Changes in the Hydrologic Environment Conductive to Subsidence,
W76-01192 9-03 4B

MILLER, R. G.
Hydrogen Peroxide Solves Sludge Odor Problem,
W76-10211 9-19 5D

MILLER, R. H.
Biological Transformation of Clay-Sized Sediments in Simulated Aquatic Environments,
W76-11291 9-21 2J

MILLER, R. L.
The Effect of Breaker Shape on Impact Pressures in Surf,
W76-01499 9-03 2L

The Interaction of Fluid and Sediment on the Foreshore,
W76-01326 9-03 2L

MILLER, R. R.
Cyprinodon Tularosa, A New Cyprinodontid Fish From the Tularosa Basin, New Mexico,
W76-02668 9-06 2H

MILLER, R. S.
Check Sampling for Monitoring Bacteriological Quality.
W76-00391 9-01 5A

MILLER, R. W.
Effect of Drilling Fluid Components Mixtures on Plants and Soils,
W76-08897 9-17 5C

Fisheries Research,
W76-05878 9-12 5C

Incidence and Cause of Gas-Bubble Disease in a Heated Effluent,
W76-02006 9-05 5C

Mobilization of Mercury from Freshwater Se
ments by Humic Acid,
W76-10294 9-19

MILLER, W.
Current Trends in Packaged Wastewater Tre
ment Facilities, Part I,
W76-00272 9-01

Current Trends in Packaged Wastewater Tre
ment Facilities, Part II,
W76-02219 9-05

Current Trends in Packaged Wastewater Tre
ment Facilities, Part III,
W76-03788 9-08

MILLER, W. D.
Effect of Cattle Feedlot Wastes Upon Grou
Water--A Commentary,
W76-12366 9-23

MILLER, W. E.
Application of Algal Assays to Define the
fects of Wastewater Effluents upon A
Growth in Multiple use River Systems,
W76-06699 9-13

Comparison of the Algal Growth Responses
Selenastrum Capricornutum Printz
Anabaena Flos-Aquae (Lyngb.) De Brebis
in Waters Collected from Shagawa Lake, M
nesota,
W76-06701 9-13

The Relationship of Laboratory Algal Ass
to Measurements of Indigenous Phytoplank
in Long Lake, Washington,
W76-06700 9-13

Utilization of Algal Assays to Assess the
fects of Municipal, Industrial and Agricult
Wastewater Effluents upon Phytoplank
Production in the Snake River System,
W76-00342 9-01

Utilization of Algal Assays to Assess the
fects of Municipal, Industrial, and Agricult
Wastewater Effluents Upon Phytoplank
Production in the Snake River System,
W76-05472 9-11

MILLER, W. J.
Water Quality and Resources Planning must
United,
W76-01343 9-03

MILLER, W. L.
Benefits and Cost of Drainage Systems,
W76-01798 9-04

The Economic Impact of Controlling Nonpo
Pollution in Hardwood Forestland,
W76-11697 9-22

Equity Considerations in Controlling Nonpo
Pollution from Agricultural Sources,
W76-08094 9-15

Interactions Between Land Use and Ur
Water Resources Planning,
W76-11130 9-21

Nutrient Concentrations of Surface Waters
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1975,
W76-07126 9-14

Systematic Development of Methodologies
Planning Urban Water Resources for Medi
Size Communities. Phase I. Final Report,
W76-11175 9-21

Water-Quality Data for Canals in Eastern Broward County, Florida, 1969-1974,
W76-11081 9-20 7C

ILLER, W. R.
Data Management in Coastal Zone Planning,
W76-06818 9-14 7C

ILLER, W. W.
Soil Moisture Availability and Movement,
W76-00007 9-01 2G

ILLETTE, J. R.
Analyzing for Asbestos in Drinking Water,
W76-10240 9-19 5A

ILLIKEN, D. M.
Ecological Base-Line Study of the Fish of the Anclote Anchorage,
W76-02019 9-05 5C

ILLINER, J. E.
Socioeconomic Analysis of a Major Rehabilitation of Irrigation and Water Management Systems in Eastern Idaho,
W76-06161 9-13 3F

ILLION, C. W.
Method for Cleaning Semipermeable Membranes,
W76-07446 9-14 3A

ILLS, A.
Fish Habitat in Forest Lands,
W76-09233 9-17 8I

ILLS, D. W.
Water as a Factor in Energy Resources Development,
W76-05250 9-11 6B

ILLS, E.
Owasco Lake and its Watershed, a Summary Report With Two Appendices and Maps,
W76-06751 9-13 5C

ILLS, H. H.
Estimated Erosion Rates on Mount Rainier, Washington,
W76-10951 9-20 2J

ILLS, W. R.
Water Factory 21 is the Future,
W76-05782 9-12 5F

ILLSAPS, C. V.
Zooplankton Studies at Morgantown,
W76-08640 9-16 5C

ILLSAPS, H. S. JR.
Zooplankton Studies at Morgantown,
W76-08640 9-16 5C

ILLWARD, R. S.
Equipment for Dewatering Waste Streams,
W76-03227 9-07 5D

Sewage Handling and Disposal Process for Chloride (NACL) Contaminated Sludges,
W76-10205 9-19 5D

MILNE, C. M.
Effect of a Livestock Wintering Operation on a Western Mountain Stream,
W76-11059 9-20 5A

Guidelines for Cattle Feedlot Design,
W76-04430 9-09 5G

Review of Research and Recommendations on Animal Waste Management Control Measures for Montana with Special Reference to Beef Cattle Feedlots,
W76-04431 9-09 5G

MILNE, G. A.
Aerobic Sewage Digestion System,
W76-01717 9-04 5D

MILNE, M.
Residential Water Conservation,
W76-08103 9-16 3D

MILNES, A. G.
Boudinage in Glacier Ice-Some Examples,
W76-07065 9-14 2C

MILOVANOVIC, D.
Phytoplankton of the Vlasina Lake During the Period 1949-1964, (In Serbo-Croatian),
W76-07942 9-15 2H

MILZ, E. A.
Technical Capabilities in Offshore Pipeline Operations to Maximize Safety,
W76-11003 9-20 5G

MIMOTO, N.
Activated Carbon Treatment of Pulp and Paper Waste Water,
W76-05730 9-12 5D

MINARD, J. P.
Stratigraphy of Atlantic Coastal Margin of United States North of Cape Hatteras--Brief Survey,
W76-01583 9-04 2L

MINAS, M.
Distribution, Circulation and Evolution of Nutrients, Particularly Inorganic Phosphorus in Lake Etang DeBerre: Influence of River Durance Waters, (In French),
W76-09393 9-17 5B

MINDENHALL, M. J.
Observations on the Performance of Polishing Lagoons at a Large Regional Works,
W76-00268 9-01 5D

MINEAR, A.
Impact of Coal Strip Mining on Water Quality and Hydrology of East Tennessee,
W76-05833 9-12 5B

MINEAR, R. A.
Application of Gas Chromatography of Volatile Metal Chelates to Water Analysis,
W76-00105 9-01 5A

MINEGISHI, T.
Method and Apparatus for Purifying Waste Water,
W76-01137 9-03 5D

MINELLI, M. P.
Factors Affecting Slime Accumulation in Fiberboard Mill Process Water,
W76-01689 9-04 5D

MINER, J. R.
Model to Predict the Performance of Feedlot Control Facilities at Specific Oregon Locations,
W76-03971 9-08 5D

A Model to Predict the Performance of Feedlot Runoff Control Facilities at Specific Oregon Locations,
W76-06382 9-13 5B

Nature and Behavior of Manure,
W76-11038 9-20 5B

Predicting the Performance of Feedlot Control Facilities at Specific Oregon Locations,
W76-01807 9-04 5G

Swine Waste Nutrient Recovery System Based on the Use of Thermal Discharges,
W76-07179 9-14 5D

The Use of Waste Heat in a System for Animal Waste Conversion with By-Product Recovery and Recycling,
W76-01806 9-04 5D

MINER, N. H.
Quabbin Reservoir: A Study of Drought and Water Demand,
W76-04682 9-10 4A

MINGES, D. R.
Hydrology of the South Platte River Valley, Northeastern Colorado,
W76-03398 9-07 4B

MINK, L. L.
Ground Water Leaching of Jig Tailing Deposits in the Coeur D'Alene District of Northern Idaho,
W76-06951 9-14 5B

MINNICK, R.
Survey Problems Along the California-Arizona Boundary,
W76-02166 9-05 4A

MINNS, C.K.
Summer Distribution of the Nearshore Fish Community Near A Thermal Generating Station as Determined by Acoustic Census,
W76-02321 9-05 5B

MINTURN, R. E.
Filtration Techniques for Purification of Kraft Pulp Mill and Bleach Plant Wastes,
W76-07643 9-15 5D

MINTURN, R. W.
Complete Reuse of Textile Dyeing Wastes Processed with Dynamic Membrane Hyperfiltration,
W76-02312 9-05 5D

MINZAT, R.
Bacterial Contents of Sewage from Large Hog Farms in Romania, (In France),
W76-02401 9-05 5A

MINZNER, R. A.
An Analysis of the Errors Associated with the Determination of Atmospheric . Temperature from Atmospheric Pressure and Density Data,
W76-13179 9-24 2B

MIODUSZEWSKI, D.
Ammonia Removal-What's Best,
W76-00258 9-01 5D

MIORIN, A. F.
Tioga River Mine Drainage Abatement Project,
W76-12874 9-24 5G

MIRABITO, J. A.
Earthwatch,
W76-06321 9-13 5A

MIRANDA, J. G.
Sump Design for Oil/Water Separators,
W76-04022 9-09 5D

MIRKINA, S. D.
Determination of Total Phosphorus in Suspended Matter of Natural Waters, (In Russian),
W76-02572 9-06 5A

MIROMANOV, YU. D.
Photometric Method for the Control of Suspended Solids in Sedimentation Tanks (Fotometricheskii metod kontrolya vzveshennykh veshchestv v otstoinikakh),
W76-11390 9-21 5A

MIRONOV, O. G.
Development of Certain Black Sea Fishes in Sea Contaminated by Petroleum Products,
W76-12326 9-23 5C

Influence of Oil on Nucleic Acids of Algae,
W76-11821 9-22 5C

Marine Soil Pollution and Self-Purification, (In Russian),
W76-09789 9-18 5A

MIRONOVA, N. V.
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W76-07422 9-14 3F

MIROSHINICHENKO, YU. M.
Effect of Vegetation on Soil Humidity in Eastern Kara Kum, (In Russian),
W76-02208 9-05 2G

MISAWA, S.
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W76-07007 9-14 5A

MISHINA, N. I.
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W76-12315 9-23 5A

MISHIRO, T.
The Maintenance and Management of Sewage Pipe Systems (Gesuikanro no iji kanri),
W76-08005 9-15 8A

MISRA, R. D.
Irrigating Corn and Grain Sorghum with a Deficient Water Supply,
W76-08544 9-16 3F

MISSIMER, T. M.
Fluctuations of Ground-Water Levels in Lee County, Florida, in 1974,
W76-12801 9-24 4B

MITA, A.
Method for Manufacturing Sulfite Pulp Cooking Liquor From Sulfite Pulp Spent Liquor,
W76-02777 9-06 5D

MITANI, N.
Apparatus for Photo-Oxidation of Water,
W76-04287 9-09 5D

MITCHELL, A.
Handbook of Forecasting Techniques,
W76-07062 9-14 6A

MITCHELL, B.
Value Conflicts and Water Supply Decisions,
W76-01350 9-03 6B

MITCHELL, D. G.
An Improved Determination of Chemical Oxygen Demand in Water and Wastes by a Simplified Acid Dichromate Digestion,
W76-09203 9-17 5A

A Semiautomated Procedure for the Determination of Phosphorus in Water, Waste Waters and Particulates,
W76-03579 9-08 5A

MITCHELL, D. M.
Effects of Grazing on Infiltration Rates in Waste Water Spray Fields,
W76-03124 9-07 5D

Effects of Grazing on Infiltration Rates in Waste Water Spray Fields,
W76-08352 9-16 5E

MITCHELL, F. K.
Evaluating the Impact of Sludge Discharge to Santa Monica Bay, California,
W76-05088 9-11 5C

MITCHELL, G. A.
Yield and Heavy Metal Content of Food Crops Grown on Soils Amended with Sewage Sludge,
W76-11610 9-21 5D

MITCHELL, J. E.
A Preliminary Compartment Model of the Nitrogen Cycle in a Deciduous Forest Ecosystem,
W76-10269 9-19 5B

MITCHELL, J. K.
Coastal Erosion Hazard in the United States: A Research Assessment,
W76-07788 9-15 2L

MITCHELL, K. J.
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W76-11362 9-21 3F

Transpiration and Photosynthesis in Soybean: Effects of Temperature and Vapour Pressure Deficit,
W76-11407 9-21 3F

MITCHELL, N. T.
Environmental and Public Health Consequences of the Controlled Disposal of Transuranic Elements to the Marine Environment,
W76-08604 9-16 5C

MITCHELL, R.
An Evaluation of Artificial Destratification for Control of Algal Blooms,
W76-01147 9-03 5C

High Gradient Magnetic Filtration of Magnetic and Non-Magnetic Contaminants from Water,
W76-07763 9-15 5D

Mine Drainage Pollution Reduction by Inhibition of Iron Bacteria.
W76-03314 9-07 5G

MITCHELL, R. A.
Evaluation of Surface Water Resources from Machine-Processing of ERTS Multispectral Data,
W76-00833 9-02 5G

MITCHELL, R. D.
Economics of the Use of Surface Condensers with Dry-type Cooling Systems for Fossil-Fueled and Nuclear Generating Plants,
W76-04544 9-10 5D

MITCHELL, R. L.
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W76-12495 9-23 5D

MITCHELL, R. N.
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W76-10145 9-19 7C

MITCHELL, S. T.
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W76-02743 9-06

MITCHELL, T. M.
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W76-12677 9-24

MITCHUM, A. L.
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W76-03545 9-08

MITERA, J.
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W76-06390 9-13

MITEREVA, V. G.
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(In Russian),
W76-03639 9-08

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nobytovkh i proizvodstvennykh stochnyk
vod),
W76-07515 9-15

MITSCH, W. J.
Ecosystem Modeling of Waterhyacint
Management in Lake Alice, Florida,
W76-11884 9-22

MITSUYASU, H.
Observations of the Directional Spectrum
Ocean Waves Using a Cloverleaf Buoy,
W76-03738 9-08

MIURA, K.
Oil Fence Having Directional Control Device,
W76-07441 9-14

MIWA, T.
Desalination Process by Improved Multistag
Electrodialysis,
W76-05980 9-12

MIXON, F. O.
Moving Bed Filter Performance Studies,
W76-06290 9-13

MIYAHARA, M.
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MIYAKE, Y.
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W76-08601 9-16

MIYAMOTO, H. K.
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W76-07683 9-15

MIYAMOTO, S.
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Water Penetration into Dry Calcareous and
Sodic Soils,
W76-05907 9-12

Potentially Beneficial Uses of Sulfuric Acid in
Southwestern Agriculture,
W76-08766 9-17

YASHITA, K.
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W76-02603 9-06 5D

YAZAWA, T.
Method for Separating Oil from Water,
W76-07445 9-14 5D

ZE, L. D.
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W76-03904 9-08 7C

IZOBUCHI, Y.
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W76-04067 9-09 5D

IZOHATA, A.
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W76-07961 9-15 5A

IZUFUNE, M.
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W76-08476 9-16 5D

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W76-02980 9-06 5D

IZUKOSHI, M.
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W76-00016 9-01 2B

IZUMURA, K.
Simulation of Hydraulic Processes in Open Channels,
W76-08344 9-16 8B

IZUNO, S.
Observations of the Directional Spectrum of Ocean Waves Using a Cloverleaf Buoy,
W76-03738 9-08 2L

IOAV, R.
Genetic Differences in Susceptibility to Two Diseases Among Strains of the Common Carp,
W76-06764 9-13 5C

IOBERLY, D.
Sioux Falls Restores Four Wells with Collector Pipe,
W76-09510 9-18 3B

IOELLER, J. R.
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W76-03138 9-07 5D

IOERGELI, B.
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W76-02192 9-05 5D

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W76-06736 9-13 2E

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W76-05340 9-11 5D

MOFFA, P. E.
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W76-00371 9-01 5D

Give Stormwater Pollutants the Spin,
W76-09461 9-18 5D

MOFFETT, M. B.
Development of a Sea-Ice Thickness Gage--An Attempt to Use Shear Waves,
W76-04320 9-09 2C

MOFFOT, G.
Intertidal Fauna of the Industrialized Forth Estuary,
W76-11818 9-22 5C

MOFJELD, H.
Mode Tides,
W76-00905 9-02 2L

MOGG, J. L.
Portable Water Sampling Apparatus,
W76-05958 9-12 7B

Siphon System Yields Chilean Plant More Water,
W76-05550 9-12 8C

MOHAMMAD, M-B. M.
Effect of Chronic Oil Pollution on a Polychaete,
W76-11715 9-22 5C

MOHAN RAO, G. J.
Water Pollution and its Control at Oil Refineries,
W76-04025 9-09 5D

MOHANRAO, G. J.
Effluent Treatment in Selected Organic Chemical Factories,
W76-08465 9-16 5D

Toxicity Studies of Photo-Film Wastes,
W76-02386 9-05 5C

MOHNEN, V. A.
Introduction to the Atmospheric Aerosol System,
W76-10911 9-20 5A

MOHR, A. W.
Energy and Pollution Concerns in Dredging,
W76-06183 9-13 5C

MOHR, C. M.
Decision Mapping - Tool for Underground Waste Management,
W76-11063 9-20 5B

MOHR, J.
Minnesota Environmental Impact Statement Requirements,
W76-06560 9-13 6G

MOHRING, H.
The Role of Pollutee Taxes in Externality Problems,
W76-06226 9-13 5G

MOIR, G. J.
Depositional Environment Interpretation from Settling-Velocity (PSI) Distributions,
W76-01265 9-03 2J

MOISEEV, P. A.
Some Biological Background for International Legal Acts on Rational Utilization of the Living Resources of the World Ocean,
W76-12007 9-22 6E

MOISEYEV, I.S.
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W76-06191 9-13 8D

MOLCHANOVA, I. V.
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W76-11565 9-21 2K

Effect of the Soil Moisture Regime on the Passage of Strontium-90, Cesium-137 and Cerium-144 from Soil into Solution, (In Russian),
W76-12868 9-24 5B

MOLCO, M.
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W76-09555 9-18 5D

MOLDAU, K.
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W76-06786 9-13 2I

MOLDAU, K. A.
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W76-09097 9-17 2I

MOLDENHAUER, W. C.
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W76-08551 9-16 2J

MOLES, D. A.
The Effect of Prudhoe Bay Crude Oil on Survival and Growth of Eggs, Alevins, and Fry of Pink Salmon, Oncorhynchus Gorbuscha,
W76-00141 9-01 5C

MOLINARI, R.
Calculations of Differential Kinematic Properties from Lagrangian Observations in the Western Caribbean Sea,
W76-01257 9-03 2L

MOLISE, E. M.
Ecological Ramifications of Silver Iodide Nucleating Agent Accumulation in a Semi-Arid Grasslands Environment,
W76-02665 9-06 3B

MOLITOR, D. C.
Erosional Effects of Wildfire and Logging in Idaho,
W76-07027 9-14 4D

MOLLER, F.
The Application of Sequential Estimation Methods to Counts of Phytoplankton,
W76-05622 9-12 5A

MOLNAR, K.
On Diplostomosis of the Grasscarp Fry,
W76-06025 9-12 2H

MOLONEY, J. I.
Submerged Air Release Device Particularly for Sewage Treatment,
W76-02610 9-06 5D

Submerged Air Release Device Particularly for Sewage Treatment,
W76-05581 9-12 5D

MOLVAR, A.
Assessment and Development Plan for Monitoring of Organics in Storm Flows,
W76-00507 9-02 5A

MOLZ, F. J.
Water Transport through Plant Tissues in the Presence of a Diffusable Solute,
W76-04243 9-09 2I

MONAGHAN, B. A.
Efficacy of Biological Nitrification,
W76-03684 9-08 5D

MONAGHAN, C. A.
Bayport Centralizes Treatment of Industrial Wastes,
W76-02337 9-05 5D

MONAGHAN, D. A.
Feasibility of Hydraulic Transport of Ground Household Refuse Through Sewer Appurtenances,
W76-05070 9-11 5D

MONASTERO, F. C.
Framework for Bureau of Land Management Programs,
W76-11476 9-21 6G

MONCREIFF, R. W.
Heat Treatment for the Control of Marine Fouling at Coastal Electric Generating Stations,
W76-04916 9-10 5C

MONCUR, J. E. T.
An Exploratory Application of Two Methods of Analyzing Water Use Time Series,
W76-06813 9-14 6D

MONDAL, N.
Effect of Late Sowing on Morphogenetic Development of Panicle in Rice (Oryza Sativa L.),
W76-08758 9-17 3F

MONEIRO, W.
Balanidae as Pollution Indicators in the Bay of Guanabara, (In Portuguese),
W76-09823 9-18 5A

MONEY, C. A.
Recycling of Lime-Sulphide Unhairing Liquors - I, Small-Scale Trials,
W76-08179 9-16 5D

MONGAN, T. R.
Quantitative Techniques for Evaluating the Environmental Impact of Transportation Systems,
W76-01009 9-03 4C

MONGES, D.
A Quantitative Model for the Planning of Surface Water Resources: Use of Mixed Variable Linear Programming,
W76-12546 9-23 4A

MONK, C. D.
Cation Flux in Hardwood and White Pine Watersheds,
W76-10329 9-19 5B

Litter Production, Decomposition, and Nutrient Cycling in a Mixed Hardwood Watershed and a White Pine Watershed.
W76-10310 9-19 5B

Nutrient Losses in Particulate Form as Weir Pond Sediments from Four Unit Watersheds in the Southern Appalachians,
W76-10330 9-19 5C

MONK, R. D. G.
Improvements to New Bedford's Water Supply,
W76-00206 9-01 5F

MONKE, E. J.
Physical-Chemical Composition of Eroded Soil,
W76-13010 9-24 2J

MONKHOUSE, R. A.
The Age of Groundwater in the Chalk of the London Basin,
W76-11848 9-22 2F

The Use of a Digital Model in the Management of the Chalk Aquifer in the South Downs, England,
W76-02714 9-06 4B

The Use of a Digital Model in the Management of the Chalk Aquifer in the South Downs, England,
W76-03356 9-07 4B

MONSER, J. R.
Use of Mathematical Models in the Palo Alto Marshland Rehabilitation Project,
W76-09949 9-18 8B

MONTALVO, J. G.
Environmental Implications of Sediment Bulk Analysis Techniques for Trace Metals in Offshore Well-Drilling Operations,
W76-08908 9-17 5A

MONTANARI, F. W.
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W76-01611 9-04 6C

MONTELONGO, I.
The Tuxtepec Paper Mill (Oaxaca, Mexico) and Pollution of the Papaloapan River (La Fabrica de Papel Tuxtepec y la contaminacion del Rio Papaloapan),
W76-03577 9-08 5C

MONTFORT, R. W.
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W76-11941 9-22 5A

MONTGOMERY, E. L.
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W76-02749 9-06 4B

Preliminary Investigation of the Hydrologic Properties of Diatremes in the Hopi Buttes, Arizona,
W76-02239 9-05 4B

Structural Relations Determined From Interpretation of Geophysical Surveys: Woody Mountain Well Field, Coconino County, Arizona,
W76-02238 9-05 4B

Water Resources of the Inner Basin of San Francisco Volcano, Coconino County, Arizona,
W76-02237 9-05 4B

Water Resources of the Woody Mountain Well Field Area, Coconino County, Arizona,
W76-02748 9-06 4B

MONTGOMERY, J. C.
A Comparative Evaluation of the Weiss Saturometer,
W76-03774 9-08 5A

Effect of Temperature on Tolerance to D
solved Gas Supersaturation of Black Bullhe
Ictalurus Melas,
W76-12727 9-24

MONTGOMERY, J. R.
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Chelating Agents in Rivers of Western Pue
Rico,
W76-10292 9-19

MONTGOMERY, M. L.
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Spraying,
W76-05949 9-12

MONZIE, P.
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tration with new Polymeric Membranes,
W76-04758 9-10

MOODY, C. D.
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Reclaiming Wellton-Mohawk Drainage Wate
W76-02746 9-06

Applications of Direct Osmosis: Des
Characteristics for Hydration and Dehydratic
W76-02745 9-06

MOODY, D. W.
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to the Scheduling of Large-Scale Wa
Resource Systems Development,
W76-05846 9-12

Application of Multi-Regional Planning Mod
to the Scheduling of Large-Scale Wa
Resource Systems Development,
W76-06425 9-13

Gulf Coast Lease Management Inspection P
gram,
W76-11006 9-20

The Potential Impact of Satellite Data-Rel
Systems on the Operation of Hydrologic D
Programs,
W76-11497 9-21

Surface Water and Ground Water Interacti
Phenomena in Planning Models,
W76-12553 9-23

MOODY, W. B.
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W76-11051 9-20

MOOERS, C. N. K.
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W76-01496 9-03

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the Coastal Upwelling Region Off Oregon,
W76-06695 9-13

MOOK, P. H.
Rotating Screen Separator,
W76-08016 9-15

MOOK, W. G.
Chemistry of Dissolved Inorganic Carbon
Estuarine and Coastal Brackish Waters,
W76-09597 9-18

Natural Isotopes in Surface and Groundwat
from Argentina,
W76-06185 9-13

MOONEY, H. A.
Drought Adaptations in Two Californian Eve
green Sclerophylls,
W76-09476 9-18

)ONEY, K.
The Mediterranean Outflow--A Simple Advection-Diffusion Model,
W76-00544 9-02 2L

)ORE, A.
A Model of Water Content and Evaporation for Hardwood Leaf Litter,
W76-10270 9-19 2D

)ORE, B.
Acute Toxicity of Well-Drilling to Rainbow Trout,
W76-08899 9-17 5A

)ORE, B. E.
Poliovirus Inactivation by Activated Sludge,
W76-00256 9-01 5D

)ORE, B. H.
ERTS-1 Data in Support of the National Program of Inspection of Dams,
W76-02029 9-05 7C

)ORE, C. B.
Rebound Limits on Charge Separation by Falling Precipitation,
W76-00009 9-01 2B

)ORE, D.
Remote Sensing of Water Quality in Prairie Lakes,
W76-02363 9-05 5A

)ORE, D. E.
Community Response to the Flood Disaster Protection Act of 1973,
W76-06810 9-14 6F

)ORE, D. G.
Effects of Forest Fertilization with Urea on Stream Water Quality--Quilcene Ranger District, Washington,
W76-05938 9-12 5B

Impact of Forest Fertilization on Water Quality in the Douglas-Fir Region -- A Summary of Monitoring Studies,
W76-05943 9-12 5B

The Impact of Timber Harvest, Fertilization, and Herbicide Treatment on Streamwater Quality in Western Oregon and Washington,
W76-05618 9-12 5B

Remote-Sensing Techniques for Determining Water Table Depths in Irrigated Agriculture,
W76-02160 9-05 7B

Soil Processes and Introduced Chemicals,
W76-05936 9-12 4C

)ORE, D. J.
Recent Central Electricity Generating Board Research on Environmental Effects of Wet Cooling Towers,
W76-04812 9-10 5C

)ORE, D. O.
Estimating Peak Discharges from Small Drainages in Nevada According to Basin Areas Within Elevation Zones,
W76-13080 9-24 4A

)ORE, F. K.
On the Minimum Size of Natural-Draft Dry Cooling Towers for Large Power Plants,
W76-01488 9-03 8A

Scaling Law for Dry Cooling Towers with Combined Mechanical and Natural Draft,
W76-01490 9-03 8A

MOORE, F. L.
Liquid-Liquid Extraction of Zinc with High-Molecular-Weight Amines From Alkaline Cyanide Solutions,
W76-04773 9-10 5D

MOORE, G. E.
Filtration Techniques for Purification of Kraft Pulp Mill and Bleach Plant Wastes,
W76-07643 9-15 5D

MOORE, I. D.
An Evaluation of Three Rainfall-Runoff Models,
W76-01419 9-03 2A

MOORE, J. A.
Waste Management Systems for Roofed Beef Confinement Facilities,
W76-11040 9-20 5D

MOORE, J. E.
Analog Model Study of the Hydrology of the San Luis Valley, South-Central Colorado,
W76-03403 9-07 4B

MOORE, J. L.
The Use of Linear Programming Techniques for Estimating the Benefits from Increased Accuracy of Water Supply Systems,
W76-13169 9-24 6A

MOORE, J. N.
Future Prospects for Law of the Sea: The Functional Approach and the Law of the Sea,
W76-07351 9-14 6E

U. S. Position on Law of the Sea Reviewed,
W76-10743 9-20 6E

MOORE, J. W.
The Ecology of Algae in the Moruya River, Australia,
W76-12934 9-24 5C

Water Quality Investigations in a Small Artificial Reservoir,
W76-12943 9-24 5C

MOORE, K. A.
Nitrogen, Phosphorus and Carbon Flux in Chesapeake Bay Marshes,
W76-06162 9-13 5C

MOORE, L. J.
The Role of Dispersion in Fuel Oil Bioassay,
W76-11100 9-20 5C

MOORE, M. B.
Methods of Avalanche Control on Washington Highways, Fourth Annual Report,
W76-02546 9-06 2C

MOORE, R. H.
Observations on Fishes Killed by Cold at Port Aransas, Texas, 11-12 January 1973,
W76-12744 9-24 2L

MOORE, R. P.
Liquid Conditioning and Settling Tanks,
W76-08203 9-16 5D

MOORE, S. A. JR.
Differential Sensitivity to PCB by Phytoplankton,
W76-11816 9-22 5C

MOORE, S. F.
Describing Variance with a Simple Water Quality Model and Hypothetical Sampling Programs,
W76-13162 9-24 5B

Offshore Oil Spills and the Marine Environment,
W76-11093 9-20 5G

A Preliminary Assessment of the Environmental Vulnerability of Machias Bay, Maine to Oil Supertankers,
W76-13087 9-24 6G

Sampling Network Design for Dispersion Verification,
W76-09961 9-18 5B

Towards a Model of the Effects of Oil on Marine Organisms,
W76-11021 9-20 5C

MOORE, T. R.
Recognition and Prediction of Runoff-Producing Zones in Humid Regions,
W76-07073 9-14 2E

MOORE, W. A.
Financing Pollution Control Projects in South Carolina Using Tax-Exempt Industrial Revenue Bonds,
W76-09770 9-18 5G

MOORE, W. L.
Changes in the Sedimentation Characteristics of an Urbanizing Watershed, Dallas and Collin Counties, Texas,
W76-09745 9-18 4C

MORAES, J. V.
Influence of Flooding on pH, Oxidation-Reduction Potential and Soil Phosphorus Availability, (In Portuguese),
W76-07289 9-14 5C

MORAN, R. E.
Thermodynamic Constraints on Metal Solubilities in a Stream Affected by Mine Drainage, Bonanza, Colorado,
W76-03901 9-08 5B

MORAVCOVA, V.
Axenic Cultures of Tetrahymena Pyriformis as Toxicological Tools,
W76-09121 9-17 5A

MORAVEC, F.
On some Problems of the Biological Control of Human Schistosomes in Egypt,
W76-06034 9-12 5C

Some Helminths of Bulinus Truncatus and Biomphalaria Alexandrina from the Irrigation System Near Cairo,
W76-06028 9-12 5A

MOREAU, D. H.
Field-Level Planning for Areawide Waste Treatment Management: A Model for Planning Under Section 208 of the Federal Water Pollution Control Act,
W76-05261 9-11 5D

Strategies for Water Quality Monitoring,
W76-00178 9-01 5A

MOREAU, G.
The Application of 'Biotic Indices' to the Study of Pollution in a River with Cyprinidae, (In French),
W76-11580 9-21 5A

MOREAU, J. O.
Oil Pollution Totalizer,
W76-04603 9-10 5A

MOREL, F. M. M.
Fate of Trace Metals in Los Angeles County Wastewater Discharge,
W76-00355 9-01 5B

Fate of Trace Metals in Los Angeles County Wastewater Discharge,
W76-00545 9-02 5B

Fate of Trace Metals in Los Angeles County Wastewater Discharge,
W76-01104 9-03 5B

MOREL-SEYTOUX, H. J.
A Combined Model of Water Table and River Stage Evolution,
W76-06380 9-13 2A

Drainage Rates from a Vertical Column,
W76-06165 9-13 2F

Equation of Infiltration with Compression and Counterflow Effects,
W76-11956 9-22 2G

Prediction of Imbibition in a Horizontal Column,
W76-02935 9-06 2G

Systematic Design of Legal Regulations for Optimal Surface -Groundwater Usage - Phase 2,
W76-06551 9-13 4B

Water and Air Movement in a Bounded Deep Homogeneous Soil,
W76-11695 9-22 2G

MORELLI, F. A.
Effects of Petroleum Pollutants on Arctic Microbial Populations,
W76-09909 9-18 5C

MORETTI, P. M.
Hydraulic Model Studies of Mechanical Mixing Devices in Stratified Lakes,
W76-11495 9-21 8B

MORGAN, G. B.
Design of Pollutant Oriented Integrated Monitoring Systems,
W76-11238 9-21 7B

MORGAN, G. M. JR.
Design of an Experiment to Suppress Hail in Illinois,
W76-08330 9-16 3B

MORGAN, J. J.
Fate of Trace Metals in Los Angeles County Wastewater Discharge,
W76-00355 9-01 5B

Fate of Trace Metals in Los Angeles County Wastewater Discharge,
W76-00545 9-02 5B

Fate of Trace Metals in Los Angeles County Wastewater Discharge,
W76-01104 9-03 5B

Sampling and Analysis of Metals in Air, Water and Waste Products,
W76-10639 9-20 5A

MORGAN, N. O.
Biodegrading Poultry Excreta with House Fly Larvae: The Concept and Equipment,
W76-11053 9-20 5D

MORGAN, R. P. II
Biochemical Studies of Entrained Phytoplankton at the Morgantown Maryland Power Plant,
W76-08642 9-16 5C

MORGAN, T.
Mangrove-Root Communities in a Thermally Altered Area in Guayanilla Bay, Puerto Rico,
W76-03487 9-07 5C

MORGAN, V. I.
Radio-Echo Sounding of the Lambert Glacier Basin,
W76-05380 9-11 2C

MORGAN, W. D.
Reassessment of the Cross-Florida Barge Canal: A Probability Approach,
W76-08228 9-16 4A

The Weibull Probability Assignment Technique: An Application to Benefit-Cost Analysis,
W76-01331 9-03 6A

MORGANSTERN, K. H.
Use of High-Power Electron Beam Radiation for the Treatment of Municipal and Industrial Wastes,
W76-09537 9-18 5D

MORGELI, B.
Biological Processes for Effluent and Waste Treatment Exemplified by the Paper Industry (Biologische Verfahren Zur Abwasser- Und Abfallaufbereitung am Beispiel der Paper-Industrie),
W76-08699 9-16 5D

New Developments Toward Closed Water Systems in the Paper and Board Industry (Neue Entwicklungen bei der Wasserkreislaufschliessung in der Papier- und Kartonindustrie),
W76-04755 9-10 5D

MORI, M.
Recovery of P205 from Waste-Waters by Adding Lime (Sekkai Shori Ni Yoru Haisuichu No P2O5 No Kaishu),
W76-12660 9-23 5D

MORI, N.
Biodegradation of Components of Pulp Waste Effluents by Bacteria, (2) On the Degradation of Lignin Sulfonates,
W76-05485 9-11 5D

MORI, S.
Centralized Control System of Sewerage (Gesuido Shuchu Seigyo Shisutemu),
W76-01058 9-03 5D

MORI, T.
Simulation of BOD and do Balance with Respect to a Polluted Shallow River (Part I): Mathematical Model,
W76-01777 9-04 5B

Simulation of BOD and DO Balance with Respect To Polluted Shallow-River (Part 2): Simulation Example for Middle Course Tamagawa (Asai odaku kasen ni okeru BOD, DO shushi no simurashon (Dai 2 ho): Tamagawa churyuiki e no tekiyo rei),
W76-03446 9-07 5B

Studies on Phosphorylation Coupled with Denitrification and Aerobic Respiration in Pseudomonas Denitrificans,
W76-08823 9-17 5C

MORI, Y.
Experiments on Fluid Bed Treatment Using Petroleum-Based Spheroidal Dust Coal, (In Japanese),
W76-00211 9-01 5F

MORILLA, A. G.
Ground-Water Movement Through an Abandoned Tailings Pile,
W76-06952 9-14

MORIN, D. C.
Physical and Settling Characteristics of Particulates in Storm and Sanitary Wastewaters,
W76-00372 9-01

MORIN, G. C. A.
Well Cuttings Analysis in Ground-Water Resources Evaluation,
W76-13036 9-24

MORIN, O. J. JR.
Commercial Membrane Desalting Plants: Design and Analysis,
W76-08370 9-16

MORIN, R. A.
Ozone Disinfection Pilot Plant Studies Laconia, New Hampshire,
W76-03688 9-08

MORIN, Y. E.
Effects of Structures on Irregular Waves Compared to Regular Waves,
W76-03119 9-07

MORING, J. R.
Acute Toxicities of Spruce and Hemlock Bark Extracts to some Estuarine Organisms Southeastern Alaska,
W76-11393 9-21

MORISAWA, M.
Multiobjective Planning and Environmental Evaluation of Water Resource Systems,
W76-10610 9-20

MORISHIMA, A.
Coating Factory's Grouping in the City Area and Environmental Pollution Control (Kishigaichi ni sonritsu suru mekki kojo no shudanka to kogai taisaku),
W76-06980 9-14

MORISHITA, I.
Marked Diminution of Dissolved Oxygen in the Hypolimnion of Lake Biwa in August, 1973, (In Japanese),
W76-10976 9-20

MORISOT, A.
Agronimic Effects of the Land Disposal Wastes from the Agricultural and Food Industries (Repercussions Agronomiques Des Epandages D'Effluents Des Industries Agricoles Altimentaires,
W76-05331 9-11

MORITA, R. Y.
Some Physiological Effects of Near-Maximum Growth Temperatures on an Obligately Psychrophilic Marine Bacterium,
W76-12681 9-24

MORIWAKI, Y.
Causes of Slaking in Argillaceous Materials,
W76-07329 9-14

MORLOCK, G.
Process for the Precipitation of Heavy Metal Ion-Polycarboxylate Complexes,
W76-11452 9-21

MORLOT, M.
Problems Concerning the Character of Oxidizability of Certain Organic Substances in Water Treated with Ozone (Problemes lies L'Evolution Du Caractere D'Oxydabilite

ertain Corps Organiques Presents Dans L'Eau
ratee Par L'Ozone),
V76-09692 9-18 5D

RNIG, A. W.
dentification, Estimation and Monitoring of
etroleum in Marine Waters by Luminescence
lethods,
V76-10395 9-19 5B

ROZ, S. I.
Development and use of Floating Filtering
Materials in Water Filtration (Razrabotka i
nedrenie plavayushchikh zagruzok
il'trovaniya vody),
V76-01438 9-03 5F

ROZ, T. G.
Effect of Salinity on the Survival and
Reproductivity of Oligochaetes of the Family
Tubificidae of the Dnieper-Bug Estuary, (In
Russian),
V76-05454 9-11 5C

ROZENKOV, V. S.
Measurement of the Structure of River Flow,
V76-06180 9-13 2E

ROZOV, N. V.
Petroleum-Oxidizing Bacteria Accompanying
Higher Aquatic Plants, (In Russian),
V76-11572 9-21 5C

ROZOVA, G. K.
Migration Ability of Radionuclides and Their
Transition Into Water When Using Atomic
Energy for Peaceful Purposes,
V76-06863 9-14 5B

ROZOVA, N. G.
Natural Radioelements in Contemporary Bot-
tom Sediments of Estonian Lakes,
V76-06875 9-14 5B

ORRIS, A. W.
Seasonal Distribution of Ultraviolet Absorption
in the Surface Waters of Liverpool Bay,
V76-06740 9-13 5B

Seasonal Variation of Dissolved Metals in
Inshore Waters of the Menai Straits,
V76-11722 9-22 5B

The Winter Distribution of Ultra-Violet Ab-
sorption in the Surface Waters off the West
Coast of the British Isles,
V76-06739 9-13 5B

ORRIS, B. F.
Petroleum Residues in the Sargasso Sea and on
Bermuda Beaches,
V76-09315 9-17 5C

Quantitative Monitoring and Variability of
Pelagic Tar in the North Atlantic,
V76-10378 9-19 5B

ORRIS, D. C.
Process Water Reuse and Control at an NSSC
Mill,
V76-02302 9-05 5D

Process Water Reuse and Upset Control
Modification at an Integrated NSSC Mill,
V76-02356 9-05 5D

ORRIS, D. N.
Energy Demand and Its Effect on the Environ-
ment,
V76-02621 9-06 6D

MORRIS, G. L.
Duck-Processing Waste,
W76-08168 9-16 3E

MORRIS, I.
Effect of Environmental Factors on Photosynthesis Patterns in Phaeodactylum Tricornutum (Bacillariophyceae). I. Effect of Nitrogen Deficiency and Light Intensity,
W76-12942 9-24 5C

Influence of Temperature on the Photosynthetic Efficiency in Natural Populations of Marine Phytoplankton,
W76-02022 9-05 5C

MORRIS, J. C.
The Chemistry of Aqueous Chlorine in Relation to Water Chlorination,
W76-12878 9-24 5C

Dynamics of Breakpoint Chlorination,
W76-00115 9-01 5F

Equilibria in Aqueous Solutions of Chlorinated Isocyanurate,
W76-00116 9-01 5F

MORRIS, J. W.
Our Troubled Waterways,
W76-04632 9-10 5G

MORRIS, M.
A High Sierra Precipitation Measurement Program, Final Report on the 1975 Season,
W76-12446 9-23 2B

MORRIS, M-E.
Assessment of Virus Removal by a Multi-Stage Activated Sludge Process,
W76-09676 9-18 5D

MORRIS, R. C.
Energy Crisis, Supertankers and Ecology,
W76-10735 9-20 5G

MORRIS, R. J.
Lipid Composition of Surface Films, and Zooplankton from the Eastern Mediterranean,
W76-11585 9-21 5B

MORRISON, D. E.
Social Scientists and the Quality of Life: A Critical Synthesis,
W76-05369 9-11 6B

MORRISON, G. H.
Multielement Analysis of Sludge Samples by Instrumental Neutron Activation Analysis,
W76-03319 9-07 5A

MORRISSEY, M. W.
Computer Program for Three-Dimensional Plottings from Irregular Finite Element Grid,
W76-11327 9-21 2F

MORROW, J. J.
Technique for Continulusly Analyzing the Concentration of Ozone Dissolved in Water,
W76-12405 9-23 5F

MORROW, P. A.
Drought Adaptations in Two Californian Evergreen Sclerophylls,
W76-09476 9-18 2I

MORSE, R. M.
Marine Pollution Data Archiving and Exchange,
W76-10376 9-19 5A

MORTIER, F.
The Role of Groundwater in the Optimum Utilization of Water Resources,
W76-00815 9-02 4B

MORTIMER, C.H.
Part 1. Physical Characteristics of Lake Michigan and Its Responses to Applied Forces,
W76-03106 9-07 2H

MORTIMER, D. C.
Mercury Uptake in Rooted Higher Aquatic Plants; Laboratory Studies,
W76-09111 9-17 5C

MORTIMER, J. A.
Mobile Irrigation System,
W76-04276 9-09 3F

MORTLAND, M. M.
Relationship of Geomorphology to Origin and Distribution of a High Charge Vermiculitic Soil Clay,
W76-06926 9-14 2G

MORTON, B.
Pollution of Hong Kong's Commercial Oyster Beds,
W76-11817 9-22 5C

MORTON, F. I.
Climatogical Estimates of Evapotranspiration,
W76-07772 9-15 2D

Estimating Evaporation and Transportation from Climatological Observations,
W76-01122 9-03 2D

MORTON, J. F.
Salt-Tolerant Silt Grass (Paspalum Vaginatum Sw.),
W76-07252 9-14 3C

MORTON, R. A.
Shoreline Changes Between Sabine Pass and Bolivar Roads, an Analysis of Historical Changes of the Texas Gulf Shoreline,
W76-03133 9-07 2L

MOSEEVA, D. P.
Determination of Lignin in Effluents (Opredelenie lignina v stochnykh vodakh),
W76-11387 9-21 5A

MOSELEY, J. C.
One Approach to the Superport/Refinery Question,
W76-12578 9-23 5G

MOSELEY, W. B.
Horizontal Random Temperature Structure of the Ocean,
W76-10691 9-20 2L

MOSER, B. C.
Airborne Sea Salt: Techniques for Experimentation and Effects on Vegetation,
W76-04818 9-10 5A

MOSER, H.
On the Water Channels of the Internal Drainage System of the Hintereisferner, Otztal Alps, Austria,
W76-07064 9-14 2C

MOSES, R. O.
Filter Belt Oil Recovery System,
W76-01222 9-03 5G

MOSEY, F. E.
Assessment of the Maximum Concentration of Heavy Metals in Crude Sewage Which Will Not Inhibit the Anaerobic Digestion of Sludge,
W76-10040 9-19 5D

MOSHER, S. C.
Secondary Treatment at Ontario-Minnesota Pulp and Paper Company Limited, Fort Frances, Ontario,
W76-09301 9-17 5D

MOSHKOVA, N. O.
Some Aspects of Foam and Scum Mycoflora in the Running Waters of Polesye and Steppe of the Ukrainian SSR, (In Ukranian),
W76-12323 9-23 5C

MOSIICHUK, S. V.
Experience in the Treatment of Highly-Concentrated Spent Native Solution of Benzyl Penicillin, (In Russian),
W76-11543 9-21 5D

MOSKALEV, Y. I.
The Passage of Tritium with Drinking Water into the Body of Rats and Their Progeny in a Chronic Experiment, (In Russian),
W76-12392 9-23 5C

Radiation Hazard of Iodine-129, (In Russian),
W76-09788 9-18 5B

MOSKVIN, YU. P.
Investigations of the Thawing of the Active Soil Layer in the Permafrost Zone,
W76-07081 9-14 2G

MOSS, B.
Studies of Gull Lake, Michigan: I. Seasonal and Depth Distribution of Phytoplankton,
W76-03338 9-07 5C

MOSS, G. J.
Line Motion and Water Current Disc Sensor,
W76-05539 9-12 7B

MOSS, M. D.
Heat Dissipation from Turbulent Open Channel Flow,
W76-05248 9-11 5B

MOSS, M. E.
Decision Theory and Its Application to Network Design,
W76-11498 9-21 7A

Information Transfer for Stream Discharge,
W76-11499 9-21 7A

MOSSOP, S. C.
Production of Secondary Ice Particles During the Growth of Graupel by Riming,
W76-06168 9-13 2B

MOSTECKY, J.
Chromatographic Determination of DMA and DMF in Aqueous Medium,
W76-06390 9-13 5A

MOTIWALA, A.
Capacitance Sensor for Soil Moisture Measurement,
W76-12457 9-23 2G

MOTOHIRO, T.
Water Treatment in Squid Processing Wastes: I. Waste Water Quality, (In Japanese),
W76-07266 9-14 5A

MOTOMIZU, S.
Nitrosophenol and Nitrosonaphthol Derivatives as Reagents for Spectrophotometric Determination of Iron and Determination of Micro-Amounts in Waters with 2-Nitroso-5-Dimethylaminophenol,
W76-06303 9-13 5A

MOTSCH, H.
Experience with a Pilot Plant for the Irradiation of Sewage Sludge; Design, Operation Experience and Cost Calculations After 18 Months of Continuous Running,
W76-09546 9-18 5D

MOTTO, H. L.
Relationship Between Water Quality and Plant Growth in Ponds,
W76-11170 9-21 5C

MOTZ, A. B.
Social Science Data Banks and the Institute for Water Resources,
W76-05822 9-12 6B

MOUAT, D. A.
Orbital and High Altitude Imagery as a Management Tool for Land use and Flood Hazard Studies,
W76-06262 9-13 4A

MOUNT, D. I.
Mercury Residues in Fathead Minnows, Pimephales Promelas Rafinesque, Chronically Exposed to Methyl-Mercury in Water,
W76-00875 9-02 5C

The Role of Bioassays in Environmental Research,
W76-09644 9-18 5A

MOUNTAIN, J. A.
Further Thermal Addition Studies at Crystal River, Florida with an Annotated Checklist of Marine Fishes Collected 1969-1971,
W76-12163 9-23 5C

MOUNTCASTLE, W. R.
Nature and Stability of Complex Mercury Compounds in Surface and Ground Waters, Phase II,
W76-05838 9-12 5A

MOUNTFORD, K.
Laboratory Simulation of Power Plant Effects: Response of Some Estuarine Phytoplankters to Time Temperature Combinations,
W76-08646 9-16 5C

MOVCHAN, V. G.
Effect of Irrigation on Some Physicochemical Properties of Ciscaucasian Chernozems of the Second Terrace of the Don River, (In Russian),
W76-03022 9-07 3C

MOWAT, A.
Measurement of Metal Toxicity by Biochemical Oxygen Demand,
W76-09127 9-17 5A

Most Probable Number Versus Membrane Filter on Chlorinated Effluents,
W76-11635 9-22 5D

MOWBRAY, W. H.
The Effects of Two Electrical Barriers on the Entrainment of Fish at a Freshwater Nuclear Power Plant,
W76-07497 9-15 8I

MOYER, J. E.
Port Collection and Separation Facilities Oily Wastes. Vol. 5. A Comparative Analysis Conceptual System Plans for the Survey Ports Under the 'No Discharge', '1969 Amendments' and 'No Sheen' Criteria,
W76-05830 9-12

MOYLE, W. R. JR.
Geohydrology of the Anza-Terwilliger Ar Riverside County, California,
W76-11074 9-20

MROSLA, E.
Flow Establishment and Initial Entrainment Heated Water Surface Jets,
W76-00679 9-02

MUALEM, Y.
A Dependent Domain Model of Capill Hysteresis,
W76-00903 9-02

A New Model for Predicting the Hydra Conductivity of Unsaturated Porous Media,
W76-12837 9-24

MUDRI, S. S.
Effluent Treatment in Selected Organic Che cal Factories,
W76-08465 9-16

MUEHLING, A. J.
Pollution-Control Techniques and Requ ments,
W76-04420 9-09

MUELLENHOFF, W. P.
Preliminary Summary of Sludge Degradat Studies in a Marine Benthic Environment,
W76-05086 9-11

MUELLER, E. W.
Effects of Forest Fertilization on T Southeast Alaska Streams,
W76-05612 9-12

Effects of Forest Fertilization on T Southeast Alaska Streams,
W76-08673 9-16

Effects of Large Scale Forest Fires on Wa Quality in Interior Alaska,
W76-10045 9-19

MUELLER, F. N.
Fast Current Oil Response System,
W76-11928 9-22

MUELLER, J. A.
Factors Affecting Respiratory Quotient--App cation to Pure Oxygen Systems,
W76-05078 9-11

Waste Treatment Apparatus,
W76-09432 9-18

Waste Treatment Process,
W76-08978 9-17

MUELLER, J. C.
Detoxification of Bleached Kraft Mill E fluents,
W76-08461 9-16

Detoxification of Bleached Kraft Mill E fluents,
W76-10867 9-20

Effects of Color and Toxic Constituents Bleached Kraft Mill Effluent on Algal Growth
W76-09300 9-17

Foam Detoxification of Bleached Kraft Effluent,
W76-08460 9-16 5D

Foam Separation - A Technique for Water Pollution Abatement,
W76-05115 9-11 5D

Foam Separation for Detoxification of Bleached Kraft Mill Effluents,
W76-10855 9-20 5D

Rotating Disk Looks Promising for Plant Wastes,
W76-05337 9-11 5D

Ultimate Disposal of Biological Sludges -- A Novel Concept,
W76-12481 9-23 5E

FELLER, P. H.
Distribution Functions Limited at the Origin (Im Ursprung Begrenzte Verteilungsfunktionen),
W76-06316 9-13 2A

FELLER, R. A.
Measurement of Lake Ice Thickness with a Short-Pulse Radar System,
W76-11753 9-22 7B

FELLER, R. F.
Environmental Aspects of Run-off and Siltation in the Anacostia Basin from Hyperaltitude Photographs,
W76-07568 9-15 4D

FELLER, R. T.
Nitrogen-Silicon Interaction in Plants Grown in Desert Soil with Nitrogen Deficiency,
W76-11509 9-21 3F

FENCH, R. D.
Oceanographic Conditions During 1973 in Russel Fjord, Alaska,
W76-08525 9-16 2L

FENZER, W. A.
Chromate Abatement in the Y-12 Plant's New Hope Pond,
W76-04842 9-10 5G

FGA, B. J.
The Role of Engineering in Minimizing Offshore Impacts,
W76-09331 9-17 5G

FGINO, Y.
Oil Adsorbent,
W76-12409 9-23 5G

FHAMMAD, S.
Effect of Diluted Sea Water on the Base Status of an Acid Soil,
W76-11131 9-21 2G

FHAMMED, S.
Effect of Water Quality and Management Practices on Some Chemical Properties of Soils,
W76-09926 9-18 3C

FIGA, M. I.
Aggregate Modeling of Water Demands for Developing Countries Utilizing Socio-Economic Growth Patterns,
W76-08083 9-15 6D

FIR, L. R.
Numerical Two-Dimensional Flow Model for River Systems,
W76-09964 9-18 2E

MUIR, W. M.
Novel Polymer Membranes for Reverse Osmosis,
W76-13153 9-24 5F

MUKAI, S.
Behavior of Hydrogen and Hydroxyl Ions at the Oxide-Water Interface,
W76-10633 9-20 5B

MUKERJEE, N.
Meteorological Factors and Disease Expressions in Jute,
W76-09931 9-18 3F

MUKHAMEDIEV, A. M.
Study of the Zooplankton of Small Lakes of the Lower Reaches of the Isfairamsai River, (In Russian),
W76-07412 9-14 2H

MUKHAMEDZHANOV, M. A.
Subsurface Waters of Erosion Troughs in the Aktyuba Region of the Ural - A Source of Drinking Water Supply,
W76-10943 9-20 2F

MUKHEISIN, A. A.
Age Composition and Growth of Aspius Aspius (L.) in the Lower Volga, (In Russian),
W76-08255 9-16 2I

MUKHERJEE, R. N.
Giant 1 472 Ml/d Waterworks at Garden Reach, Calcutta,
W76-00260 9-01 5F

MUKHMADIEV, B. T.
Analysis of Sulfur-Containing Products Accumulated by Chlorella Mutants,
W76-05476 9-11 5C

MUKHOPADHYAYA, S. C.
Operation of Hydrogenerator as Synchronous Condensor,
W76-09637 9-18 8C

MULAIK, S. A.
Multivariate Analysis of Georgia Coastal Plain Groundwaters,
W76-12466 9-23 2F

MULAMOOTTIL, G.
Planning for the Rehabilitation of Gravel Pits,
W76-08087 9-15 4A

MULCHI, C. L.
Effects of Salt Sprays on the Yield and Nutrient Balance of Corn and Soybeans,
W76-04820 9-10 5C

MULDER, D.
Drain Envelope Response to Field Treatments,
W76-08548 9-16 4A

MULDER, P. F. S.
A Report on the Artificial Fertilization of the Smallmouth Yellowfish, Barbus Holubi (Steindachner, 1894),
W76-01021 9-03 8I

MULFORD, R. A.
Morgantown Entrainment. Part IV. Phytoplankton Taxonomic Studies,
W76-08643 9-16 5C

MULFORD, R. F.
Influence of Organic Nitrogen on Soil Nitrogen, Nodulation, Nitrogen Fixation, and Yield of Soybeans,
W76-00157 9-01 3F

MULKEY, D.
A Review of Sewer Charge Experience in South Carolina,
W76-04512 9-10 5D

MULL, R.
Integrated Mathematical Models Used for Groundwater Resources Planning in Areas Influenced by Human Settlements,.
W76-12543 9-23 4B

MULLA, M. S.
Insect Growth Regulators for the Control of Aquatic Midges,
W76-09997 9-18 5G

MULLEN, D. C.
A Forced Aeration System for Composting Wastewater Sludge,
W76-11200 9-21 5E

MULLEN, K. T.
Directory of EPA, State and Local Environmental Quality Monitoring and Assessment Activities.
W76-10623 9-20 5G

MULLEN, R. S.
Laboratory Simulation of Power Plant Effects: Response of Some Estuarine Phytoplankters to Time Temperature Combinations,
W76-08646 9-16 5C

MULLER, A. B.
Fresh Water for Arizona by Salt Replacement Desalination,
W76-02231 9-05 3A

MULLER, F.
Apparatus for the Separation of Liquid Mixtures My Means of Permeability Selective Separation Membranes,
W76-05991 9-12 3A

Temperature Measurement of Ice and Water Surfaces in the North Water Area Using an Airborne Radiation Thermometer,
W76-05389 9-11 7B

MULLER, F. B.
Effect of Phosphorus and Sulphursphates on Movement of Phosphorus and Sulphur in Two Soils,
W76-06242 9-13 2G

MULLER, G.
Re-Use and Disposal of Waste Acids,
W76-08721 9-16 5D

MULLER, J. C.
Effect of Temperature and Sludge Loading on BOD5 Removal and Sludge Settleability in Activated Sludge Systems Treating Bleached Kraft Effluents,
W76-05105 9-11 5D

MULLER, P.
A Parametric Wave Prediction Model,
W76-08337 9-16 2L

MULLER, R. N.
Miami River Watershed Project: Introduction,
W76-05886 9-12 5B

MULLER, W. A.
Growth of Salt Marsh Microcosms Subjected to Thermal Stress,
W76-02016 9-05 5C

MULLIN, M. M.
Coccolith Sedimentation by Fecal Pellets: Laboratory Experiments and Field Observations,
W76-08954 9-17 5C

Distribution, Morphometry, and Seasonal Biology of the Planktonic Copepods, Neocalanus Robustior and N. Gracilis, in the Pacific Ocean,
W76-08951 9-17 5C

Nutrient Regeneration by Oceanic Zooplankton: A Comparison of Methods,
W76-08950 9-17 5C

MULLINER, H. R.
Anhydrous Ammonia Application in Irrigation Water VS. Mechanical and its Effect on Corn Yields,
W76-01072 9-03 3F

Every-Other Furrow Irrigation of Corn,
W76-12371 9-23 3F

MULLINS, J. A.
Dairy Lagoon System and Groundwater Quality,
W76-07185 9-14 5B

MULTER, R. H.
Some Hard Lessons in Numerical Hydraulics,
W76-09952 9-18 8B

MULVIHILL, M. E.
Optimal Timing and Sizing of a Conjunctive Water Supply and Wastewater System, Using Nonlinear Programming,
W76-12621 9-23 5F

MUNAWAR, I. F.
Phytoplankton Biomass, Species Composition and Primary Production at a Nearshore and a Midlake Station of Lake Ontario During IFYGL,
W76-11426 9-21 5C

MUNAWAR, M.
The Abundance of Diatoms in the Southwestern Nearshore Region of Lake Ontario During the Spring Thermal Bar Period,
W76-11425 9-21 2H

Biomass Parameters and Primary Production at a Nearshore and a Midlake Station of Lake Ontario During IFYGL,
W76-08825 9-17 5C

Fluctuations of Phytoplankton Biomass and its Composition in a Subarctic Lake During Summer,
W76-12938 9-24 5C

Phytoplankton Biomass, Species Composition and Primary Production at a Nearshore and a Midlake Station of Lake Ontario During IFYGL,
W76-11426 9-21 5C

Phytoplankton Composition of a Small Subarctic Lake in the Northwest Territories, Canada,
W76-01157 9-03 5C

MUNDAY, J. C. JR
Applications of Remote Sensing to Estuarine Problems,
W76-13184 9-24 2L

MUNDORFF, M. J.
Hydrologic Evaluation of Salinity Control and Reclamation Projects in the Indus Plain, Pakistan--A Summary,
W76-06453 9-13 5G

MUNGLE, C. R.
Development of Reverse Osmosis Membranes and Spiral Design Modules for Demineralization of Brackish Waters at Low Pressures,
W76-08373 9-16 3A

MUNK, W.
Mode Tides,
W76-00905 9-02 2L

MUNOZ, Y. F.
Hydrography and Phytoplankton of the Coast of Castellon, from September 1969 to January 1971, (In Spanish),
W76-12164 9-23 5A

MUNRO, G. R.
The Economics of Fishing and Modern Capital Theory: A Simplified Approach,
W76-11140 9-21 6C

MUNROE, V. G.
Kraft Effluent Treatment by Flotation,
W76-08463 9-16 5D

MUNZ, A.
Light Dependent DDT-Effect on Microalgae, (In German),
W76-07622 9-15 5C

MURAKAMI, K.
The Effluent Treatment System and Utilization of Recycled Water in the Iyomishima Mill (Daio seishi Mishima kojo ni okeru sogo haisui shori to haisui no sairiyo),
W76-08700 9-16 5D

MURAKAMI, S.
Determination of Optimum Quantity of Service Water Obtainable from One Dam System,
W76-06419 9-13 4A

MURAKAMI, T.
The Control of Waste Water Flow of New Town into the Treatment Plant (Danchi gesuishorijo no ryunyusui no seigyo ni kansuru kenkyu),
W76-07012 9-14 5D

The Forecasting, of Inflow Variation into the Waste Water Treatment Facility in the New Town, (In Japanese),
W76-01449 9-03 5D

MURAKAMI, Y.
A Simple Metho dthe for Detection of Floating Oils on Water, (In Japan),
W76-04062 9-09 5A

Treatment Method for Liquid Waste Containing Surface Activators (Kaimen kasseizai o ganyu suru haisui no shoriho),
W76-02984 9-06 5D

MURALIDHAR, D.
Roughness Effects on Rectangular Free Overfall,
W76-11855 9-22 8B

MURANO, M.
Succession of Plankton Diatoms in Tokyo Bay, (In Japanese),
W76-12268 9-23 5C

MURATORE, E.
Color Removal from Kraft Effluent by Ultrafiltration with new Polymeric Membranes,
W76-04758 9-10 5D

MURAYAMA, H.
PCB Contents in Several Species of Flatf Collected in the Eastern Bering Sea, Japanese),
W76-00332 9-01

MURCHELLANO, R.
Fin Erosion in Winter Flounder,
W76-11809 9-22

MURCHIO, J. C.
Preliminary Studies of Asbestiform Fibers Domestic Water Supplies,
W76-12325 9-23

MURCHISON, C. B.
Cyanide Enhancement of the Photooxidation Acetic Acid,
W76-05032 9-11

MURDOCH, M. B.
Microbial ATP and Organic Carbon in Se ments of the Newport River Estuary, No Carolina,
W76-08687 9-16

MURDOCK, L. C.
Oscillator Circuit for Providing a Conductiv Ratio of Sea Water,
W76-02594 9-06

Standard Conductivity Cell for Measurement Sea Water Salinity and Temperatures,
W76-01716 9-04

MURMANN, R. K.
The Preparation and Oxidative Properties Ferrate Ion (FeO42-) Studies Directed Tow Its Use as a Water Purfying Agent, Phase II,
W76-01687 9-04

MURPHEY, C. E.
Heavy Collars Aid Hole Control,
W76-10102 9-19

MURPHREE, C. E.
An Automatic Pumping Sampler for Evaluat the Transport of Pesticides in Suspended Se ment,
W76-00728 9-02

MURPHY, C. E.
Simulation of Nitrogen Distribution and Its I fect on Productivity in Even-Aged Loblo Pine Plantations,
W76-10271 9-19

MURPHY, C. J.
Combination Providing Safety Berthing, U loading of Oil, and Conduit Carriage to Refi ries on Land, of Large Deep-Sea-Requir Tankers,
W76-09865 9-18

MURPHY, D. L.
Movement of Surface Drifters in the Americ Mediterranean,
W76-00907 9-02

MURPHY, D. S.
Double Funnel with Baffle Cascade Aerati Unit,
W76-09027 9-17

Single Basin Aerated Sewage Lagoon w Spring Time Intensified Aeration,
W76-00350 9-01

MURPHY, J. C.
Nitrogen Fixation by Lichens of the Northe Piedmont,
W76-10327 9-19

URPHY, J. J.
Silver in Photoprocessing Effluents,
W76-05732 9-12 5D

URPHY, K. L.
Efficacy of Biological Nitrification,
W76-03684 9-08 5D

Treatability Studies At a Fish Processing Plant, Part Two,
W76-02335 9-05 5D

URPHY, L. S.
Disposal of Beef Feedlot Wastes onto Land,
W76-07184 9-14 5D

Effects of Application Rate in Direct Land Disposal of Animal Wastes,
W76-00443 9-01 5E

Present Knowledge on the Effects of Land Application of Animal Waste,
W76-07199 9-14 5D

Summary of Kansas' Experience with Liquid Waste Spreading,
W76-03988 9-08 5E

Treatment and Ultimate Disposal of Cattle Feedlot Wastes,
W76-01876 9-04 5D

Use of Cattle Feedlot Runoff in Crop Production,
W76-03559 9-08 3C

URPHY, P. J.
Evaluating the Impact of Structurally Interrupted Flood Plain Flows,
W76-01808 9-04 4A

URPHY, T. J.
Inputs of Phosphorus from Precipitation to Lake Michigan,
W76-13112 9-24 5B

URPHY, T. M. JR.
Distribution of Alligators in Response to Thermal Gradients in a Reactor Cooling Reservoir,
W76-03484 9-07 5C

Effects of Thermal Effluent on Populations of Mosquito Fish,
W76-03479 9-07 5C

URPHY, T. P.
Rates of Accumulation of Phosphorus Forms in Lake Erie Sediments,
W76-08726 9-16 2J

URRAY, C.
Weed Holds Promise for Pollution Cleanup,
W76-09440 9-18 5D

URRAY, C. N.
Results of Plutonium Intercalibration in Seawater and Seaweed Samples,
W76-08616 9-16 5A

URRAY, D. A.
A Light Weight Corer for Sampling Soft Subaqueous Deposits,
W76-09266 9-17 2J

URRAY, D. L.
Stratified Sampling of Soil Moisture,
W76-02457 9-05 2G

URRAY, M. C.
DDT Residues in Cod Livers from the Maritime Provinces of Canada,
W76-07719 9-15 5C

MURRAY, S. N.
Impact of Sewage on the Distribution, Abundance and Community Structure of Rocky Intertidal Macroorganisms,
W76-03023 9-07 5C

The Primary Productivity of Marine Macrophytes from a Rocky Interidal Community,
W76-07965 9-15 5C

MURRAY, S. P.
Wind and Current Effects on Large-Scale Oil Slicks,
W76-09310 9-17 5G

MURTHY, C. R.
Horizontal Diffusion Characteristics in Lake Ontario,
W76-06929 9-14 2H

Vertical Mixing Characteristics in the Thermocline and Hypolimnion Regions of Lake Ontario,
W76-11308 9-21 2H

MURTHY, K. N.
Studies of Specific Capacities of Wells in Hard Rocks and Alluvial Formations of Mysore State,
W76-00485 9-01 4B

MURTY, T. S.
Free Oscillations in Bays and Harbors,
W76-10420 9-19 8B

Helmholtz Resonance in Harbours of the Great Lakes,
W76-11306 9-21 2H

Operational Model for Predicting the Movement of Oil in Canadian Navigable Waters,
W76-09908 9-18 5B

Simulation of Movement of Oil Slicks in the Strait of Georgia using Simple Atmosphere and Ocean Dynamics,
W76-09316 9-17 5C

MUSHA, S.
Chemical Interference Effects in the Atomic Absorption Spectrometric Determination of Lead with Premixed Inert Gas (Entrained Air)-Hydrogen Flames.
W76-09043 9-17 5A

MUSICK, J. T.
Alternate-Furrow Irrigation of Fine Textured Soils,
W76-01073 9-03 3F

Deep Tillage of Graded-Furrow-Irrigated Pullman Clay Loam,
W76-08543 9-16 3F

Limited Irrigation of Grain Sorghum in Alternating Strips with Wheat,
W76-08542 9-16 3F

No-Till Seeding of Irrigated Sorghum Double Cropped After Wheat,
W76-08756 9-17 3F

Reduced Irrigation Tailwater Runoff for Increased Water-Use Efficiency,
W76-13008 9-24 3F

MUSSELMAN, H. D.
Gamma Irradiation for Sewage Treatment at US Army Facilities,
W76-09525 9-18 5D

Synergistic Effects of Irradiation of Waste-Water.
W76-09524 9-18 5D

MUSTAFA, M. A.
Dispersion as an Index of Relative Hydraulic Conductivity in Salt-Affected Soils of the Sudan,
W76-01694 9-04 2G

MUSY, A.
Bayesian Approach to Tile Drain Design,
W76-12527 9-23 8B

MUSZYNSKI, W. J.
Operation and Impact of NPDES in Region II, Part I,
W76-10005 9-19 5G

Operation and Impact of NPDES in Region II, Part 2,
W76-13059 9-24 5G

MUTO, M.
Decomposition of Particulate Organic Materials in Tokyo Bay at Summer Stagnation Period in 1972,
W76-07406 9-14 5C

MUTZ, J. L.
Secondary Succession Following Extended Inundation of Texas Coastal Rangeland,
W76-06267 9-13 4A

MUYS, J. C.
Legal Problems Involved in Developing Water Supplies for Energy Development,
W76-04336 9-09 3E

MUZZARELLI, R. A. A.
The Use of Chitosan Columns for the Removal of Mercury from Waters,
W76-06239 9-13 5A

MYAGKIY, D. D.
Development and use of Floating Filtering Materials in Water Filtration (Razrabotka i vnedrenie plavayushchikh zagruzok fil'trovaniya vody),
W76-01438 9-03 5F

MYANNIK, L. E.
Determination of M-Phenylenediamine in Water, (In Russian),
W76-11730 9-22 5A

MYATT, R. T.
The Treatment of Blast Furnace Gas Washing Effluent,
W76-01633 9-04 5D

MYERS, C. G.
Radar Reflectivity Factor Calculations in Numerical Cloud Models Using Bulk Parameterization of Precipitation,
W76-01860 9-04 2B

MYERS, E. A.
Design, Operation, and Monitoring of Municipal Irrigation Systems,
W76-05783 9-12 5E

MYERS, J. M.
Efficiency of Irrigation Methods for Strawberries,
W76-09897 9-18 3F

MYERS, L. H.
Controlling Phenols in Refinery Waste Waters,
W76-07520 9-15 5D

MYERS, M. J.
Improved Flowing Water Apparatus for the Culture of Brachyuran Crab Larvae,
W76-03035 9-07 5A

MYERS, W. H.
At the End of Your Rope...,
W76-11911 9-22 8G

MYKYTIUK, A.
Analysis of High-Purity Water and Acids by Spark Source Mass Spectrometry,
W76-12483 9-23 5A

MYNHIER, M. D.
Design Graphs for Activated Sludge Process,
W76-01005 9-03 5D

MYOTT, D. H.
Effect of Cesspool Discharge on Ground-Water Quality on Long Island, N.Y.,
W76-00308 9-01 5B

MYSER, R. D.
Occurrence of As, Cd, Co, Cr, Cu, Fe, Hg, Ni, Sb, and Zn in Lake Erie Sediments,
W76-11293 9-21 5B

N'GUYEN, TAN
Teledetection by Airplane and Satellite in the Study of Marine Pollution, (In French),
W76-06717 9-13 5A

NABER, K. M.
Benefits and Cost of Drainage Systems;
W76-01798 9-04 6B

NABHOLZ, J. B.
Factor Analysis: An Exploratory Technique Applied to Mineral Cycling,
W76-10274 9-19 5B

NABIVANETS, B. I.
Chemiluminescent Method of Determining Manganese in Natural Waters, (In Russian),
W76-09077 9-17 2K

Experimental Study of the Effect of Temperature and Degree of Oxygen Saturation on the Destruction rate of Soluble Proteins in Natural Waters, (In Russian),
W76-09078 9-17 5C

The Statistical Approach to the Study of the Small Rivers Hydrochemical Regime in Western Polesye of the Ukrainian SSR, (In Russian),
W76-11536 9-21 5A

NABORS, M. W.
Production of Plants Conducive to Salt Tolerance,
W76-11494 9-21 3C

NACCI, V. A.
Movement of Trace Metals with Percolating Water,
W76-00374 9-01 5B

NACE, R. L.
Environmental Hazards of Large Scale Water Developments,
W76-01348 9-03 6G

Generalized Geologic Framework of the National Reactor Testing Station, Idaho,
W76-01191 9-03 8E

NACHTSCHEIM, J. J.
Maritime Considerations,
W76-10377 9-19 5G

NADAUD, Y.
Device for Recovering Polluting Products Spread Over the Water Surface, In Particular Oil Products,
W76-02265 9-05 5G

NADEAU, R. J.
A Salt Marsh Microcosm: An Experimental Unit for Marine Pollution Studies,
W76-09318 9-17 5C

NADKARNI, R. A.
Multielement Analysis of Sludge Samples by Instrumental Neutron Activation Analysis,
W76-03319 9-07 5A

NAEGAMVALA, J. P.
The Concept of Water Resources Development,
W76-01618 9-04 6B

NAESER, H.
Comparison Between Physical and Mathematical Modelling of a Tidal Fjord System in Northern Norway,
W76-10445 9-19 2L

NAFTEL, W. L.
Records of Wells, Drillers' Logs, Water-Level Measurements, and Chemical Analyses of Ground Water in Brazoria, Fort Bend, and Waller Counties, Texas, 1966-74,
W76-08569 9-16 4B

Records of Wells, Drillers' Logs, Water-Level Measurements, and Chemical Analyses of Ground Water in Chambers, Liberty, and Montgomery Counties, Texas, 1966-74,
W76-09144 9-17 7C

Records of Wells, Drillers' Logs, Water-Level Measurements, and Chemical Analyses of Ground Water in Harris and Galveston Counties, Texas, 1970-74,
W76-08570 9-16 4B

NAGARAJARAO, Y. N.
Effect of Tillage on Soil Structure and Plant Growth Under Rain-Fed Conditions,
W76-10487 9-19 2G

NAGASAWA, T.
Correlation of Various Monitoring Items Regarding Pollution Substances of Human Wastes and Treated Water (Shinyo to sono shorisui no odaku sibun ni kansuru kakushu sokutei komoku kan no sokan ni tsuite),
W76-03342 9-07 5A

NAGASUBRAMANIAN, M. R.
Rainfall and Floods in India During 1974 Southwest Monsoon Period,
W76-08732 9-16 2B

NAGATA, Y.
Quality Control in Sewage Treatment Plant (Gesuishorijo no shishutsu seigyo),
W76-09205 9-17 5D

NAGEL, C. A.
State of the Technology Semi-Automatic Control of Activated Sludge Treatement Plants.
W76-12860 9-24 5D

NAGEL, H. D.
Benthogenic Phytodetritus in Eutrophic Coastal Waters as an Energy Source for Secondary Producers, (In German),
W76-10866 9-20 5C

NAGHSKI, J.
Alternatives for Reducing Water Pollution Cattlehide Processing and Tanning,
W76-08285 9-16

NAGI, T.
The Radiation-Induced Degradation of A Dyes in Aqueous Solutions,
W76-04790 9-10

NAGY, L.
Technical-Economic Planning of the G cikovo-Nagymaros Barrage Project for Development of the Central-Danube Basin,
W76-05754 9-12

NAILON, W. T.
Impact Statement for the Aquatic Plant-Con Program-State of Texas,
W76-11146 9-21

NAITO, I.
Development of the Deep Aeration Tank, Japanese),
W76-01437 9-03

NAJAK, A.
Wastewater Sample Preservation,
W76-01772 9-04

NAJIMA, K.
A Few Considerations on the Measurement Pore Size Distribution of Activated Carb (Kasseitan no saikokei bunpu solutei ni kans 2,3 no kosatsu),
W76-06309 9-13

NAJMAN, L.
Biomass -- A Product of Biological Purificat of Pulping Effluents as Feed for Poul (Biomasa -- produkt biologickeho cisteni padnich vod po vyrobe celulozy -- jako krm pro drubez),
W76-02515 9-06

NAKAGAWA, A.
Recovery and Reuse of Tin-Nickel Al Pyrophosphate Plating Solution by the Co bination of Reverse Osmosis and Ion Excha (Gyaku-shinto ho, ion kokanho no kumiaw ni yoru suzu-nikkeru gokin pirorinsan me eiki no kaishu oyobi saishiyo),
W76-04037 9-09

NAKAGAWA, H.
Toxicity of Jellied Polyacrylamide to Olyz Latipes and its Growth Inhibiting Action Porphyra Tenera, (In Japanese),
W76-02391 9-05

NAKAGAWA, M.
Studies on the Removal of Heavy Metal Io From Waste Water by Flotation Method w Anionic Surfactant I. - Removal of Traces Cadmium Ion with Sodium Dodecylbenze Sulphonate, (In Japanese),
W76-07524 9-15

Treatment Method for Heavy Metal Contain Liquid Waste (Jukinzoku ganyu haisui shoriho),
W76-07648 9-15

NAKAHARA, T.
Chemical Interference Effects in the Aton Absorption Spectrometric Determination Lead with Premixed Inert Gas (Entrained Ai Hydrogen Flames.
W76-09043 9-17

KAI, T.
Adsorption Treatment of Kraft Pulp Lignin Waste with Synthetic, Polymeric Adsorbents, (In Japanese),
W76-05289 9-11 5D

KAJIMA, M.
Method for Treating Pulp-Containing Waste Liquors,
W76-12404 9-23 5D

Process for Treatment of Paper Pulp-Containing Effluents (Verfahren zur Behandlung von papierbreihaltigen Abfallfluessigkeiten),
W76-12501 9-23 5D

KAKUMA, K.
Instruments for Water and Sewage Treatment Plants (Jogesuido keiso kiki),
W76-06347 9-13 7B

KAMURA, K.
Treatment of Waste Water Containing Mercurials by Activated Sludge. I. Mechanism of Removal of Mercurials in waste Water (Kassei odei ni yoru suigin ganyu haisui no shori ni kansuru kenkyu. I Kassei odei no suigin jokyo tiko),
W76-09017 9-17 5D

Treatment of Waste Water Containing Mercurials by Activated Sludge. 2. Mercury Volatilization and the Capacity of Activated Sludge for Waste Water Containing Mercurials (Kasseiodei ni yoru suigin ganyu haisui no shor ni kansuru kenkyu. 2),
W76-09018 9-17 5D

KAMURA, M.
A Systematic and Theoretical Study of Sewerage Remodelling Plans, I. River Turbidity Control and the Adjustment of Crosssections (Gesuido Seibi Keikaku ni Kansuru Shisutemuronteki Kenkyu I. Toku ni Kasen Odaku Seigyo o Men Seibi ni Tsuite),
W76-01055 9-03 5D

KAMURA, M. N.
Estimation of Urban Stormwater Quality in Kalihi Stream Drainage Basin, Oahu, Hawaii,
W76-01525 9-04 5B

KAMURA, N.
Waste Liquid Treatment Method by the Rotating Disk Contact Oxidation Method (Kaiten desuku no sesshoku ni yoru haisui shoriho),
W76-02978 9-06 5D

KAMURA, S.
Nonlinear Lateral Oscillation in a Harbour Model,
W76-10418 9-19 8B

KAMURA, T.
Study on Waste Water Treatment with Calcium Silicates (I) on the Removal of CD(-), PB(-), CR(-) Salts, (In Japanese),
W76-03065 9-07 5D

KAMURO, K.
Hygienic Chemical Studies on Water Quality of the Moat of Imperial Palace: I. Relationship Between Seasonal Water Quality and Microflora in the Moat. (In Japanese),
W76-07426 9-14 5C

Hygienic Chemical Studies on Water Quality of the Moat of Imperial Palace: II. Relationship Between Water Quality and Horizontal Insolation Intensity, (In Japanese),
W76-07427 9-14 5C

NAKANISHI, T.
Effects of Hypoxia on the Breathing Rate, Heart Rate and Rate of Oxygen Consumption in Fishes,
W76-02334 9-05 5C

NAKANO, J.
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W76-10839 9-20 5D

NAKANO, M.
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W76-12984 9-24 2G

NAKANO, S.
Effect of the Inorganic Coagulant for the Dyeing Waste Water Treatment with Ozone, (In Japanese),
W76-00122 9-01 5D

NAKASHIMA, B. S.
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W76-03655 9-08 5C

NAKASHIMA, R.
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W76-03304 9-07 5A

NAKASHIMA, S.
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W76-01278 9-03 5D

NAKATANI, R. E.
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W76-00861 9-02 5C

NAKATO, T.
A Laboratory Investigation of the Mechanics and Hydraulics of River Ice Jams,
W76-10714 9-20 2C

NAKAYA, H.
Measurement Method for Dissolved Ammonia Nitrogen in Water (Yozon anmoniasei chisso nodo sokuteiho),
W76-08261 9-16 5A

NAKAYAMA, B.
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W76-03959 9-08 3E

NAKAYAMA, K.
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W76-09022 9-17 5D

NAKAYAMA, M.
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W76-09619 9-18 6A

NAKHSHINA, E. P.
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W76-12305 9-23 5B

NALBANT, T.
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W76-02909 9-06 2L

NALEPKA, R. F.
Advanced Processing and Information Extracting Techniques Applied to ERTS-1 MSS Data,
W76-02057 9-05 7C

NALLURI, C.
Sediment Transport in Smooth Fixed Bed Channels,
W76-02409 9-05 8B

NAMBU, S.
Biochemical and Physical Properties of an Activated Sludge on Settling Characteristics,
W76-10037 9-19 5D

NAMKEN, L. N.
Seedbed Soil Salinity and Emergence of Peppers and Carrots Under Sprinkler and Furrow Irrigation,
W76-06305 9-13 3C

NANAGARA, T.
Diffusion and Mass Flow of Nitrate-Nitrogen to Plant Roots,
W76-10182 9-19 2G

NANBA, Y.
Removal of Heavy Metals From Liquid Waste--Chelate Resins (Haisuichu no jukinsoku no jokyo--kireto jushi),
W76-03086 9-07 5D

NANCE, P. D.
Organic Residue in Recycled Effluent, Part II,
W76-00646 9-02 5D

NANCE, T. F.
Magic Island...Ten Years After,
W76-00889 9-02 8A

NANEY, J. W.
On-Site Runoff Depletion at Three Impoundments,
W76-08122 9-16 4A

NAPARSTEK, J. D.
Virus Removal in an Activated Sludge Plant,
W76-10230 9-19 5D

NARASIMHAN, S.
Pressure Fluctuations in Submerged Jump,
W76-09265 9-17 8B

NARASIMHAN, T. N.
An Integrated Finite Difference Method for Analyzing Fluid Flow in Porous Media,
W76-08123 9-16 2F

NARASIMHAN, V. A.
A Water-Land Use Management Model for the Sevier River Basin Phases I and II,
W76-09844 9-18 4A

NARAYANAN, A. S.
Soil Loss from Illinois Farms - Economic Analysis of Productivity Loss and Sedimentation Damage,
W76-08533 9-16 4D

NARAYANAN, R.
Capability of Integer Programming Algorithms in Solving Water Resource Planning Problems,
W76-05183 9-11 6A

NARAYANAN, R.

Economic Assessment of an Activity Analysis Model for Water Supply Planning,
W76-03163 9-07 5D

Optimization of Water Allocation, Wastewater Treatment, and Reuse Considering Non-Linear Costs, Seasonal Variations, and Stochastic Supplies,
W76-02636 9-06 5D

NARBONNE, J. -F.
Lead Nitrate Poisoning in the Carp (Cyprinus Carpio L.):Localization of the Pollutant in the Body, (In French),
W76-12251 9-23 5A

NASH, C.
An Evaluation of Cost-Benefit Analysis Criteria,
W76-06227 9-13 6B

NASH, F. M.
Pollution Control System for Water Supply,
W76-05530 9-12 5F

NASH, G. A.
Incenerator for Raw Sewage,
W76-00580 9-02 5E

NASH, N.
How Can You Cope With Shortages.
W76-00282 9-01 5F

NASH, P. A.
Evapotranspiration of Dryland Barley With Different Plant Spacing Patterns,
W76-01697 9-04 2D

NASR, M. S.
Lab-Proven Fly Ash Process Removes Bleach Effluent Color,
W76-05707 9-12 5D

NASSEF, N. A.
Apparatus for Disposing of Organic Waste Materials,
W76-11455 9-21 5E

NASSIF, S. H.
The Influence of Slope and Rain Intensity on Runoff and Infiltration.
W76-10702 9-20 2A

NASTEA, S.
Hydrosaline Regime of Some Soils in the Middle Part of the Calmatui River Basin. (In Rumanian),
W76-00573 9-02 2G

Microbiological Characterization of the Lacustrine Deposit Laid Open by Drying up of the Greaca Lake, (In Romanian),
W76-12571 9-23 2J

NASYBULIN, SH. S.
First Results of Investigations of the Water Balance in Rivers in the Upper Kolyma Basin,
W76-02926 9-06 2E

Peculiarities of Formation of Runoff of the Upper Kolyma Basin,
W76-02927 9-06 2C

NATARAJAN, K. A.
Adsorption Mechanism of Sulfides at a Platinum-Solution Interface,
W76-10636 9-20 5D

NATARAJAN, R.
Numerical Solution to a Two-Dimensional Dispersion Equation,
W76-02153 9-05 5B

NATARAJAN, S.
Correlation Between Sowing Time and Weather Factors on the Intensity of Groundnut Diseases,
W76-06800 9-13 3F

NATH, J. H.
Anchor-Last Deployment Simulation by Lumped Masses,
W76-07559 9-15 2L

Probability Distributions of Breaking Wave Heights Emphasizing the Utilization of the Jonswap Spectrum,
W76-09721 9-18 2L

NATOLI, J.
Stimulation and Inhibition of Phytoplankton Growth by Low Molecular Weight Hydrocarbons,
W76-01923 9-04 5C

NATTER, A. S.
Aquiculture - New Broom Cleans up Wastewater,
W76-10180 9-19 5G

NAUMAN, J. W.
Epifauna at Jackson Point in Port Valdez, Alaska, December 1970 through September 1972,
W76-13070 9-24 5A

NAUMANN, A. W.
A Neutron Scattering Study of Water and Ionic Solutions - 1967, First Report,
W76-03260 9-07 1B

NAURIYAL, J. P.
Effect of Different Frequencies of Irrigation on Granulation in Sweet Orange (Citrus Sinensis Osbeck),
W76-06797 9-13 3F

NAWLAKHE, W. G.
Defluoridation of Water by Nalgonda Technique,
W76-01543 9-04 5F

NAWROCKI, M. A.
Containment Area Facility Concepts for Dredged Material Separation, Drying, and Rehandling,
W76-01220 9-03 2G

NAWROT, J. R.
Environmental Inventory and Assessment of Navigation Pools 24, 25, and 26 Upper Mississippi and Lower Illinois Rivers; Floodplain Animals and Their Habitats,
W76-11747 9-22 6G

NAYAK, I. V.
How Much Precipitation Goes to Infiltration During a Storm Period,
W76-08339 9-16 2A

NAYLOR, D. V.
Establishing Water, Nutrient and Total Solids Mass Budgets for a Gravity-Irrigated Farm,
W76-13015 9-24 3F

Factors Influencing the Loss of Nitrogen and Phosphorus from a Tract of Irrigated Land,
W76-13014 9-24 5G

NAYLOR, L. M.
Simulation of Lead Removal by Chemical Treatment,
W76-07041 9-14 5F

NAZAROV, A. B.
On Th234 Accumulation by Marine Organisms
W76-06898 9-14 5

NAZAROV, G. V.
Variations in the Permeability of Soils in Var
ous Natural Zones,
W76-07076 9-14 2

NAZAROVA, N. A.
Hygienic Evaluation of Electrodialysis Wat
Desalination Set Up, (In Russian),
W76-12394 9-23 5

NAZNEEN, S.
Seasonal Distribution of Phytoplankton in Kin
har (Kalri) Lake,
W76-06146 9-12 5

NEAL, J. H.
Oil Spill Containing Boom,
W76-04263 9-09 5

NEAL, R. W.
Floatage Concentrating Equipment for Nautic
Floatage Recovery Apparatus,
W76-05036 9-11 5

NEARY, D. G.
Boron Toxicity in Red Pine Following M
nicipal Waste Water Irrigationrua.
W76-05177 9-11 5

Irrigation of Trees and Crops With Sewage St
bilization Pond Effluent in Southern Michigan
W76-03560 9-08 5

NEBBIA, G.
Detailed Economic Models for Industrial an
Other Activities,
W76-05817 9-12 5

NEBEKER, E. B.
Development and Preliminary Design of an E
perimental Prototype Free Vortex O
Skimmer,
W76-11929 9-22 5

NEBEL, C.
Ozone Provides Alternative for Secondary E
fluent Disinfection. Part 1,
W76-09445 9-18 5

Ozone Provides Alternative for Secondary E
fluent Disinfection Part 2,
W76-09715 9-18 5

Ozone Provides Alternative for Secondary E
fluent Disinfection Part 3,
W76-11213 9-21 5

NEBOLSINE, R.
Filtration and Backwashing Apparatus for U
with a Water Filtration System,
W76-10977 9-20 5

Is the Separation of Sewers Desirable,
W76-09739 9-18 5

NEBRAT, A. A.
Dynamics of Number and Biomass of Plan
tonic Infusoria in Open Zones of Kremenchu
Reservoir and Their Production and Role in O
ganic Matter Destruction, (In Russian),
W76-13141 9-24 2

NECE, R. E.
Application of Physical Tidal Models in Harb
and Marina Design,
W76-09984 9-18 5

CHAEV, B. N.
he Status of Historic Waters (Doctrine and ractice),
/76-12028 9-22 6E

CHAEVA, N. S.
Snowmelt Runoff Model and its Application Short-Range Forecasting of Flood ischarges,
/76-12440 9-23 2C

DDLE, B.
umps: A Potential Threat to Ground Water upplies,
/76-00487 9-01 5B

OWELL, D. B.
ewage Treatment and Discharge into Tropical oastal Waters,
/76-00259 9-01 5E

ELAKANTAN, B. B.
lercury in Some Marine Organisms from the slofjord,
/76-07982 9-15 5C

ELY, W. B.
ioconcentration of 2,2',4,4'-etrachlorobiphenyl in Rainbow Trout as Mea-ured by an Accelerated Test,
/76-03766 9-08 5C

lathematical Models Predict Concentration-ime Profiles Resulting from Chemical Spill in River,
/76-05155 9-11 5B

ELY, W. P.
lanning and Selecting Multiobjective Projects y Goal Programming,
/76-06432 9-13 6A

Portfolio Approach to Public Water Project ecision Making,
/76-05995 9-12 6B

FF, G. E.
oxicity of Polychlorinated Biphenyls (Aroclor 254) to Adult, Juvenile and Larval Stages of ne Shrimp Palaemonetes Pugio,
/76-10075 9-19 5C

FF, G. S.
roblems in Analyses of Organic Pollutants in pen-Ocean Samples,
/76-11239 9-21 5A

FF, I.
/astewater Purification in the Synthetic Fiber roduction. Experiences Gained with a Biologi-al Wastewater Treatment Plant (Reinigung von bwaessern aus der Chemiefaserproduktion. rfahrungen Mit Einer Vollbiologischen laeranlage),
/76-04066 9-09 5D

FF, J. M.
ccumulation, Release, and Distribution of enzo (A) Pyrene -C14 in the Clam, Rangia Cu-eata,
/76-00137 9-01 5C

ublethal Effects of Oil, Heavy Metals and CB's on Marine Organisms,
/76-00324 9-01 5C

n Ultraviolet Spectrophotometric Method for ne Determination of Naphthalene and Alkyl-aphthalenes in the Tissues of Oil Con-minated Marine Animals,
/76-01933 9-04 5A

NEGAARD, J.
Costs of Biological Waste Water Purification (Die Kosten Der Biologischen Abwasser-reinigung),
W76-09016 9-17 5D

The Costs of Biological Waste Water Treatment (Die Kosten Der Biologischen Abwasser-reinigung),
W76-05044 9-11 5D

NEGHASSI, H. M.
Wheat Yield Models with Limited Soil Water,
W76-04559 9-10 3F

NEGORO, Y.
Computer Control of Sewage and Rain Water Pumps at Sewage Treatment Plant (Gesuishorijo no osui, amamizu ponpu no keisanki seigyo),
W76-09215 9-17 8C

NEGREA, A.
Cladocera and Gastropoda Population Ecology in the Danube Flood Plain, (In Romanian),
W76-08308 9-16 2H

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Cladocera and Gastropoda Population Ecology in the Danube Flood Plain, (In Romanian),
W76-08308 9-16 2H

NEGULESCU, C.
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W76-13055 9-24 5D

NEGULESCU, C. A. L.
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W76-07182 9-14 5D

NEI, N.
Continuous Treatment of Waste Water Containing Phenol by Candida Tropicalis (Candida tropicalis ni yoru fernoru ganyu haisui no zen-roku shori),
W76-04199 9-09 5D

NEIHAUS, E. D.
Water and Energy Requirements in the Mining and Processing of Coal, Including Land Reclamation,
W76-00753 9-02 6D

NEIL, J. H.
Harvest of Biological Production as a Means of Improving Effluents form Sewage Lagoons,
W76-10500 9-19 5G

NEILL, R. D.
Options for the Use and Disposal of Bark,
W76-09302 9-17 5E

NEILL, W. H.
Behavioural Thermoregulation and Activity Patterns in the Green Sunfish, Lepomis Cyanellus,
W76-10883 9-20 5C

NEJAND, S.
Ground-Water Quality in the Shiraz Basin, South Iran,
W76-00012 9-01 2K

NEKHOROSHEVA, E. V.
Use of Infrared Spectroscopy for Determining Environmental Pollutants, (In Russian),
W76-12307 9-23 5A

NEKRASOVA, G. A.
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W76-12036 9-22 6E

NELSON, A. B.
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W76-07016 9-14 2L

NELSON, B. A.
Trace Metal Content in the American Oyster,
W76-11964 9-22 5C

NELSON, C. H.
Mercury Distribution in Ancient and Modern Sediment of Northeastern Bering Sea,
W76-01586 9-04 5B

NELSON, C. L.
The Interaction of Fluid and Sediment on the Foreshore,
W76-01326 9-03 2L

NELSON, C. O.
Nitrogen and Phosphorus Levels in Soils Beneath Sewage Disposal Ponds,
W76-09197 9-17 5A

NELSON, D. A.
Trace Metal Content in the American Oyster,
W76-11964 9-22 5C

NELSON, D. C.
Legal Implications of Feedlot Pollution in Nebraska,
W76-05173 9-11 5G

NELSON, D. H.
Growth and Developmental Responses of Larval Toad Populations to Heated Effluent in a South Carolina Reservoir,
W76-02010 9-05 5C

NELSON, D. M.
The Chemical Speciation of PU-239, PU-240 and CS-137 in Lake Michigan Waters,
W76-05889 9-12 5B

Effect of Municipal Treatment Processes on PU-239, PU-240, and CS-137,
W76-05890 9-12 5F

Studies of Plutonium Cycling and Sedimentation in Lake Michigan,
W76-11292 9-21 5B

Study of the Behaviour of Transuranics and Possible Chemical Homologues in Lake Michigan Water and Biota,
W76-08598 9-16 5C

NELSON, D. W.
Determination of Total Nitrogen in Natural Waters,
W76-08355 9-16 2K

Evaluation of Methods for Preserving the Levels of Soluble Inorganic Phosphorus and Nitrogen in Unfiltered Water Samples,
W76-08157 9-16 5A

Factors Influencing Nitrate Transformations in Sediments,
W76-11700 9-22 5C

Getting the Most Out of an Infiltration/Inflow Analysis,
W76-06985 9-14 5D

Soil Erosion on Selected High Clay Subsiols,
W76-01308 9-03 2J

NELSON, F.
Adsorption of Inorganic Materials on Activated Carbon,
W76-01748 9-04 5D

NELSON, G. L.
Basic Performance Parameters for Oxygenation and Liquid Circulation in Rotor-Aerated Liquid Waste Systems,
W76-01092 9-03 5D

NELSON, G. R.
Modeling Residual Chlorine Levels: Closed Cycle Cooling Systems,
W76-12893 9-24 5C

NELSON, H.
Late Pleistocene and Holocene Depositional Trends, Processes, and History of Astoria Deep-Sea Fan, Northeast Pacific,
W76-05845 9-12 2L

NELSON, H. W.
Pollution Controlled Polysulfide Recovery Process,
W76-03077 9-07 5D

NELSON, I. D.
Irrigation System Management for Reducing Peak Electrical Demands,
W76-08549 9-16 3F

NELSON, J. D. JR.
Metabolism of Mercury Compounds in Microorganisms,
W76-10894 9-20 5C

Role of Bacteria in Bioaccumulation of Mercury in the Oyster Crassostrea Virginica,
W76-01102 9-03 5B

NELSON, J. W.
Operation and Maintenance of a Deep-Well Water-Level Measurement Device, 'The Iron Horse',
W76-09835 9-18 4B

NELSON, K.
Centrifuge Preventing Air Admission During Sludge Discharge,
W76-08990 9-17 5D

NELSON, L.
Appendices to: Survey Study to Select a Limited Number of Hazardous Materials to Define Amelioration Requirements,
W76-01902 9-04 5A

NELSON, L. M.
Reconnaissance Data on Lakes in Washington--Volume 1. Clallam, Island, Jefferson, San Juan, Skagit, and Whatcom Counties,
W76-07592 9-15 2H

Reconnaissance Data on Lakes in Washington--Volume 2. King and Snohomish Counties,
W76-07591 9-15 2H

Reconnaissance Data on Lakes in Washington--Volume 3. Kitsap, Mason, and Pierce Counties,
W76-08565 9-16 2H

Reconnaissance Data on Lakes in Washington--Volume 4. Clark, Cowlitz, Grays Harbor, Lewis, Pacific, Skamania, and Thurston Counties,
W76-08566 9-16 2H

Reconnaissance Data on Lakes in Washington--Volume 5. Chelan, Ferry, Kittitas, Klickitat, Okanogan, and Yakima Counties,
W76-08567 9-16 2H

Reconnaissance Data on Lakes in Washington--Volume 6. Adams, Benton, Douglas, Franklin, Grant, Lincoln, Walla Walla, and Whitman Counties,
W76-10138 9-19 7C

Reconnaissance Data on Lakes in Washington--Volume 7. Pend Oreille, Spokane, and Stevens Counties,
W76-10139 9-19 7C

NELSON, M. D.
Land and Sea Solids Management Alternatives in Philadelphia,
W76-07033 9-14 5E

NELSON, O. F.
Biological Treatment of Combined Sewer Overflow at Kenosha, Wisconsin,
W76-00694 9-02 5D

NELSON, P.
Potable Water Quality in Rural Georgetown County,
W76-05050 9-11 5A

NELSON, R. F.
Chemicals and Allied Products (Literature Reviews),
W76-12412 9-23 5D

NELSON, S. B.
Ocean Dumping--A Rational Approach to an International Problem,
W76-09304 9-17 5G

NELSON, S. D.
Soil Salinity Distribution in Sprinkler and Subsurface-Irrigated Citrus,
W76-01074 9-03 4B

NELSON, S. O.
Power Factors and Electrical Demands of Center-Pivot Irrigation Machines,
W76-08770 9-17 3F

NELSON, W. R.
Process Water Reuse and Control at an NSSC Mill,
W76-02302 9-05 5D

Process Water Reuse and Upset Control Modification at an Integrated NSSC Mill,
W76-02356 9-05 5D

NELSON, W. W.
Carbon Contents of Surface and Underground Waters in South-Central Minnesota,
W76-12202 9-23 5A

Soybean and Corn Rooting in Southwestern Minnesota: I. Water-Uptake Sink,
W76-02403 9-05 3F

Soybean and Corn Rooting in Southwestern Minnesota: II. Root Distributions and Related Water Inflow,
W76-01528 9-04 2D

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W76-00700 9-02 6B

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W76-05053 9-11 5A

NEMICKAS, B.
Geology and Ground-Water Resources o
Union County, New Jersey,
W76-13072 9-24 4

Stratigraphic and Hydrologic Relationship
the Piney Point Aquifer and the Alloway Cla
Member of the Kirkwood Formation in Ne
Jersey,
W76-05412 9-11 2

NENADOVIC, M. T.
Radiation Chemical Destruction of Phenol
Oxygenated Aqueous Solutions,
W76-09530 9-18 5

NEPENIN, J. N.
Recovery of Chemicals from Sulfite Was
Liquors by Means of Electrodialys
(Chemikalienrueckgewinnung Aus Sulfitabla
gen Mit Der Methode Der Elektrodialyse),
W76-07654 9-15 5

NERI, R. P.
Studies on the Effects of Thermal Additions
Selected Zooplankton Populations,
W76-04012 9-09 5

NESBEITT, W. D.
PVC Pipe in Water Distribution: Reliability a
Durability,
W76-03830 9-08

PVC Pipe in Water Distribution: Reliability a
Durability,
W76-05552 9-12

NESBITT, P. M.
Cities Need Sewerless Toilets,
W76-10680 9-20

NESTEROV, V. G.
Forecasting the Occurrence of Wind Erosion
Soil, (In Russian),
W76-00362 9-01

NESTOR, K.
Discussion of Possible Effects Due to Mixi
of Radioactive and Thermal Releases to the A
mosphere from Nuclear Power Plants,
W76-09502 9-18

NETTLES, M. E.
Measuring Watershed Land-Use Changes w
Airphotos,
W76-08229 9-16

NETTLI, P.
Process for Dewatering a Proteinaceous, Aq
ous Sludge and for Removing and Recover
Precipitating Agents from a Precipitate Co
taining Proteinaceous Substances,
W76-06478 9-13

NETZER, A.
Chlorination in Dilute Aqueous Systems; 2,4
Trichlorophenol,
W76-06306 9-13

Selected Bibliography on Ozone Disinfection
W76-07683 9-15

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Process for Treating Sewage Sludge,
W76-01730 9-04

NEUMAN, D. A.
Respiratory and Hematological Responses
Oyster Toadfish (Opsanus Tau) to Suspend
Solids,
W76-04909 9-10

UMAN, S. P.
inite Difference and Finite Element Simulaon of Field Water Uptake by Plants,
V76-12830 9-24 2G

dentification of Linear Systems Response by arametric Programing,
V76-09575 9-18 2E

Vetting Front Pressure Head in the Infiltration lodel of Green and Ampt,
V76-12839 9-24 2G

UMANN, G.
ffluent Charges, Environmental Quality and ther National Goals: A Qualification,
V76-03268 9-07 5G

UMANN, H.
he Purification Plant of the Animal Flaying tation in Icker-An Example for the Possibilies of the Activation Process and for the Aplication of Packed Towers with Synthetic acking Elements (Das Klaerwerk Der Tierperverwerttungsanstalt in Icker-Ein eispiel Fuer Die Moeglichkeiten Des elebungsverfahrens Und Fuer Die Des Einatzes Von Tropfkoerpern Mit Kunststoffuellelementen),
V76-02344 9-05 5D

VIN, T. A.
ficrobiological Studies of the Lagoonal Comlex Surrounding KSC (Kennedy Space enter),
V76-01895 9-04 2L

Vaste Disposal Method,
V76-00790 9-02 5D

VINS, M. P.
ioconcentration and Biotransfer of Aflatoxin,
V76-05169 9-11 5B

VZOROV, M. I.
eration Tank,
V76-02845 9-06 5D

W, L. L.
educed Irrigation Tailwater Runoff for Inreased Water-Use Efficiency,
V76-13008 9-24 3F

W, M. B.
Recirculation System for Experimental quaria,
V76-07972 9-15 7B

WCOME, R. JR.
he Miocene Aquifer System in Mississippi,
V76-06445 9-13 7C

he Sparta Aquifer System in Mississippi,
V76-11067 9-20 7C

WMAN, B. A.
erivation and Evaluation of Reservoir Rule urves,
V76-04014 9-09 4A

WMAN, F. C.
emperature Steps in Lake Kivu: A Bottom eated Saline Lake,
V76-07774 9-15 2H

WMAN, G.
daptation of a British Waste Management ystem to the U.S. Environment,
V76-07173 9-14 5D

NEWTON, D. W.
Interactions of Mercury with Aquatic and Edaphic Environments,
W76-05601 9-12 5B

NEWTON, J. G.
Early Detection and Correction of Sinkhole Problems in Alabama, with a Preliminary Evaluation of Remote Sensing Applications,
W76-11688 9-22 7B

NEWTON, S. G.
The Use of Likelihood Functions to Fit Conceptual Models with More than One Dependent Variable,
W76-08729 9-16 2G

NEWTON, S. M.
Using Paper Mill Sludge as Concrete Admixture,
W76-11399 9-21 5E

NG, F. W.
Solutions for Some Problems Resulting from Refreezing of Permafrost Around a Wellbore,
W76-08892 9-17 8G

NG, K. S.
Design Considerations of Foam Separation Process for Detoxification of Kraft Effluents,
W76-09292 9-17 5D

Foam Detoxification of Bleached Kraft Effluent,
W76-08460 9-16 5D

Foam Separation - A Technique for Water Pollution Abatement,
W76-05115 9-11 5D

Foam Separation for Detoxification of Bleached Kraft Mill Effluents,
W76-10855 9-20 5D

NG, T. T.
Influence of Water Stress on Parameters Associated with Herbage Quality of Panicum Maximum Var. Trichoglume,
W76-02969 9-06 2I

Water Stress Suspends Leaf Ageing,
W76-11934 9-22 2I

NGUYEN, Q. T.
Application of Systems Analysis Models to the Problem of Conjunctive Use of Surface and Groundwater in the Vega of Granada,
W76-00818 9-02 4B

NICHOL, K. R.
Corrosion Control--Just Another Cost.
W76-00407 9-01 8G

NICHOLAS, A. L.
Some Effects of Fertilization on Mineral Cycling in Loblolly Pine,
W76-10323 9-19 5C

NICHOLAS, W. H.
Water Flow Binding. Try Relining,
W76-08013 9-15 5F

NICHOLASS, C. A.
The Measurement of Heavy Rainfall Over Small Catchments Using Radar,
W76-00300 9-01 2B

NICHOLS, C. R.
Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Steam Electric Power Generating Point Source Category.
W76-04839 9-10 5G

NICHOLS, K. E.
Geothermal Energy System and Control Apparatus,
W76-02247 9-05 4B

Geothermal Energy System Heat Exchanger and Control Apparatus,
W76-13139 9-24 4B

NICHOLS, P.
Legal-Political History of Water Resource Development in the Upper Colorado River Basin,
W76-02669 9-06 6E

NICHOLS, S.
Harvesting as a Control for Aquatic Plants,
W76-03058 9-07 5G

NICHOLS, S. A.
Identification and Management of Eurasian Water Milfoil in Wisconsin,
W76-06725 9-13 5C

The Impact of Overwinter Drawdown on the Aquatic Vegetation of the Chippewa Flowage, Wisconsin,
W76-06711 9-13 4A

The Use of Overwinter Draw Down for Aquatic Vegetation Management,
W76-08093 9-15 2I

NICHOLS, S. R.
Surveillance in Water Quality Management,
W76-12148 9-22 5G

NICHOLSON, A. A.
Source Identification of Fuel Oil Spills,
W76-11314 9-21 5A

NICHOLSON, H. P.
The Needs for Water Quality Models on Agricultural Watersheds,
W76-04353 9-09 5B

NICHOLSON, R. W.
Simple Procedures Can Help Reduce Drill Pipe Damage,
W76-05572 9-12 8C

NICHOLSON, W. J.
X-Ray Diffraction and Electron Beam Analysis of Asbestiform Minerals in Lake Superior Waters,
W76-11248 9-21 5A

NICKERSON, M. A.
A Study of the Ozark Hellbender Cryptobranchus Alleganiensis Bishopi,
W76-01199 9-03 2H

NICKERSON, N. H.
Salinities of Ambient and Interstitial Waters of Some Massachusetts North Shore Salt-Marshes,
W76-06158 9-13 5B

NICKLESS, G.
Heavy Metals in Organisms of the Atlantic Coast of S.W. Spain and Portugal,
W76-11961 9-22 5B

NICOL, C. W.
Mizushima Oil Soill,
W76-04159 9-09 5G

NICOL, K. J.
Models of Land and Water Allocation to Improve Environment and Water Quality Through Soil Loss Controls,
W76-03164 9-07 5G

NICOLAS, C.
Contamination of Freshwater by Mn54 and Co60,
W76-05903 9-12 5C

NICOLLE, F. M. A.
Water Reuse and Recycle in D(C)Eded Bleaching,
W76-03076 9-07 5D

Water Reuse and Recycle in the C(D)EHDED Bleach Sequence,
W76-11385 9-21 3E

Water Reuse and Recycle in the CDEHDED Bleach Sequence,
W76-07760 9-15 5D

NICOLSON, J. A.
Water Quality Perception by Users: Can It Supplement Objective Water Quality Measures,
W76-03168 9-07 5G

NIEBER, J. L.
Evaluating the Impact of Structurally Interrupted Flood Plain Flows,
W76-01808 9-04 4A

A Review and Analysis of Selected Hydrologic Modeling Concepts,
W76-09718 9-18 2E

NIEBLA, E. E.
The Use of Carbon Dioxide in Sampling and Preserving Natural Leachates,
W76-11634 9-22 5A

NIELL, F. X.
Effects of a Waste of 'Paper Kraft' on the Benthic Algal Populations in N.W. Spain. 'Stress' on the Fucaceae Standing Crop, (In Spanish),
W76-12327 9-23 5C

NIELL, X.
Applications of Shannon's Index to the Study of Intertidal Vegetation, (In French),
W76-07949 9-15 2L

NIELSEN, A. H.
Problems of Physical Model Tests with Harbours,
W76-10451 9-19 8B

NIELSEN, D. B.
Costs of Controlling Feedlot Surface Runoff,
W76-00458 9-01 5G

NIELSEN, D. R.
Determining the Hydraulic Conductivity of Soil Cores by Centrifugation,
W76-09256 9-17 2G

Manure Waste Ponding Study,
W76-01038 9-03 5D

Spatial Variability of the Leaching Characteristics of a Field Soil,
W76-07089 9-14 2G

Unsaturated Hydraulic Conductivity Determination by a Scaling Technique,
W76-02558 9-06 2G

NIELSEN, N. J.
Quantitative Techniques for Evaluating the Environmental Impact of Transportation Systems,
W76-01009 9-03 4C

NIELSEN, P.
Chemical Precipitation of Wastewaters with Lime (Kemisk fallning av avloppsvatten med kalk),
W76-05585 9-12 5D

NIELSEN, R. S.
Quantitative Techniques for Evaluating the Environmental Impact of Transportation Systems,
W76-01009 9-03 4C

NIELSEN, S. A.
Cadmium in New Zealand Dredge Oysters: Geographic Distribution,
W76-03025 9-07 5B

NIELSEN, U.
Interpretation of ERTS-1 Imagery Aided by Photographic Enhancement,
W76-02058 9-05 7C

NIELSON, N. E.
The Need for the Use of High-Level Radiation in Water Treatment and in Waste-Water (Sewage) Treatment,
W76-09518 9-18 5D

NIELSON, S. B.
Biomass Distribution and Kinetics of Baffled Lagoons,
W76-05590 9-12 5D

NIEM, A. R.
Geology and Ground Water Resources of the Kings Valley Area, Central Oregon Coast Range, Oregon,
W76-04801 9-10 4B

NIEMANN, R. A.
An Investigation of Three Methods for the Determination of Sub-micromolar ion Concentrations in Water,
W76-11331 9-21 5A

NIEMI, W. R.
Apparatus for Removing Oil From Water,
W76-02608 9-06 5G

NIEMINEN, G. A.
Economic Considerations in the Selection of a Biological Treatment System,
W76-09290 9-17 5D

NIEMISTO,
Examination and Removal of Iron in Groundwater,
W76-05571 9-12 5B

NIENABER, J. A.
Disposal of Effluent from a Beef Cattle Feedlot Runoff Control Holding Pond,
W76-04290 9-09 5E

Outdoor, Unpaved Feedlot Management,
W76-03989 9-08 5E

Physical and Chemical Properties of Outdoor Beef Cattle Feedlot Runoff,
W76-10543 9-20 5B

NIENKERK, M. M.
Regional Characteristics of the Total Dissolved Minerals in Stream Waters in Illinois,
W76-11857 9-22 5A

Regional Distribution of the Major Dissolved Solids in the Streams of Illinois,
W76-06163 9-13 5B

NIERING, W. A.
Vegetation of the Santa Catalina Mountains, Arizona. v. Biomass, Production and Diversity Along the Elevation Gradient,
W76-02532 9-06 2I

NIEWOLAK, S.
Microbiological Transformation of Carbon Nitrogen, Sulfur, Iron, Phosphorus and Calcium Compounds in Lake Reservoirs, (In Polish),
W76-12494 9-23 5C

NIFUKU, M.
Detachment of Pendant Water Drops by High Voltage Pulses,
W76-05917 9-12 2E

NIGHTINGALE, H. I.
Ground-Water Recharge Rates from Thermometry,
W76-00294 9-01 4E

Hammer Seismic Timing as a Tool for Artificial Recharge Site Location,
W76-02556 9-06 4E

Lead, Zinc, and Copper in Soils of Urban Storm-Runoff Retention Basins,
W76-00307 9-01 5A

NIHOUL, J. C. J.
The Influence of the 'Tidal Stress' on the Residual Circulation: Application to the Southern Bight of the North Sea,
W76-04969 9-10 2I

An Interdisciplinary Mathematical Model Applied to the Southern Bight of the North Sea,
W76-12518 9-23 5I

NIJAMPURKAR, V. N.
An Improved Method of Silicon-32 Measurement of Groundwaters,
W76-02455 9-05 4I

NIJKAMP, P.
Towards Optimal Decision Strategies for Redevelopment Programs: A Case Study,
W76-07140 9-14 6I

NIKIFOROV, G. N.
Final Treatment of Petroleum Containing Waste Waters in Highspeed Filters for Pumping Them into Oil-Bearing Beds (Doochistka neft'soderzhashchikh stochnykh vod v sverkhskorostnykh fil'trakh s tsel'yu zakachki ikh v produktivnye plasty),
W76-05492 9-11 5I

NIKITIN, A. A.
Geomechanical Investigations of the Rock Bases of Hydraulic Structures,
W76-04323 9-09 8I

NIKITIN, V. M.
Phenols -- Products of Lignin Degradation -- in Effluents of the Baikal Pulp and Paper Mill (Fenoli -- produkty razrusheniya lignina -- v stochnykh vodakh Baikal'-skogo tsellyuloznogo zavoda),
W76-09281 9-17 5A

NIKITINA, V. N.
Associations of Blue-Green Algae of Thermal Springs of Stravropol and Krasnodar Krais and Georgian SSR, (In Russian),
W76-06769 9-13 5C

NIKOL'SKII, G. V.
Role of Far Eastern Herbivorous Fish in Ecosystems of Natural Water Bodies Used for Acclimatization, (In Russian),
W76-08666 9-16 5C

KOLAEV, I. I.
Principal Tendencies in the Biology of the Modern Baltic Sea, (In Russian),
W76-02770 9-06 5C

KOLAEVA, T. A.
Hygienic Assessment of the Existing Technology of Drinking Water Treatment and Certain Means of Its Improvement, (Gigienicheskaya otsenka sushchestvuyushchey tekhnologii ochistki pit'evoy vody i nekotorye puti ee uluchsheniya),
W76-03220 9-07 5F

KOLAEVSKAYA, Z. S.
Increase of the Effectiveness of Direct Detection of Viruses in Surface Waters by Ultrafiltration Through Soluble Ultrafilters, (In Russian),
W76-07960 9-15 5A

KOLAYEVA, G. M.
Maps of the Elements of the Hydrologic Budget of Asia,
W76-05934 9-12 2A

KOLOV, S.
Effect of Flow Rate and Canopy on Rill Erosion,
W76-03861 9-08 2J

KULIN, V. L.
Rotifer Production in Lake Baikal, (In Russian),
W76-09791 9-18 5C

KULINA, V. N.
Photosynthetic Activity of Individual Algal Species of the Plankton of Lake Krivoye, (In Russian),
W76-02206 9-05 5C

LES, D. G.
Computer Controls Put 'Waste' Water to Good Use,
W76-03323 9-07 5D

LSEN, G.
Thermal Effects on Marine Biota in Experimental Systems,
W76-08877 9-17 5C

LSEN, S.
A System for Continuous Measurement of Photosynthetic Rate and Dark Respiration at Constant CO2-Level,
W76-04586 9-10 5C

LSON, C. E.
Effluent Charges, Towards a New Environment,
W76-12048 9-22 6E

LSSON, K.
Effects of a Sulphate Pulp Mill on the Benthic Macrofauna in a Firth of the Bothnian Sea,
W76-01947 9-04 5C

MMO, D. R.
A Salinity Controller for Flow-Through Bioassays,
W76-01929 9-04 5A

NOMIYA, K.
Numerical Simulation of Japan Sea Effect Snowfall,
W76-10930 9-20 2C

SHI, T. S.
Finite Element Solutions to Two Groundwater Flow Problems - One Including Dispersion and the Other the Influence of Electro-Osmosis,
W76-03962 9-08 5B

NISHIDA, K.
The Effects of Ozone Deodorization Equipment for the Sewage Odor (Gesui shuki ni Taisuru Ozon Dasshusochi no Koka),
W76-01771 9-04 5D

NISHIDA, T.
Studies on Oxygen-Alkali Treatment of Ligneous Materials. Part V. Recycle and Reuse of Waste Liquor in O-PA-P Bleaching Sequence (In Japanese),
W76-09337 9-17 3E

NISHIHARA, T.
Studies on the Adsorptive Effect of Activated Charcoal on Polychlorinated Biphenyls in Water (Yozon PCB no kaseitan kyuchaku shori ni kansuru kenkyu),
W76-03715 9-08 5F

NISHIMURA, G. H.
Summary of Ground Water Quality in the Los Angeles Drainage Province,
W76-00888 9-02 7C

NISHIMURA, M.
Recovery and Reuse of Tin-Nickel Alloy Pyrophosphate Plating Solution by the Combination of Reverse Osmosis and Ion Exchange (Gyaku-shinto ho, ion kokanho no kumiawase ni yoru suzu-nikkeru gokin pirorinsan mekki eiki no kaishu oyobi saishiyo),
W76-04037 9-09 5D

NISHIMURA, T.
Method for Treating Fouled Water,
W76-10467 9-19 5D

NISHIMURA, Y.
Sewer Waste Water Treating Agent Produced from Waste Cracking Catalyst,
W76-11219 9-21 5D

NISHITA, H.
Empirical Methods of Using Soils as Radiation Dosimeters,
W76-00542 9-02 5A

NISHITAI, Y.
The Distribution of Coliforms in Fresh Water, (In Japanese),
W76-09934 9-18 5C

NISHIYAMA, M.
Waste Water Treatment Method by Water-Soluble Polymer Condensation Body (Suiyosei kobunshi shukugotai ni yoru haisu shoriho),
W76-07749 9-15 5D

NISHIZUKA, M.
Plan and Design of Sludge Treatment Facilities of Nishinagasawa Purification Plant, (In Japanese),
W76-00220 9-01 5F

NISKIN, S. J.
Water Current Force Measuring Apparatus,
W76-11444 9-21 7B

NIXON, C. C.
Samplers for Monitoring Runoff Waters,
W76-10550 9-20 5A

Samplers for Monitoring Runoff Waters,
W76-13006 9-24 5A

NJENJA, F. X.
Regional Approaches to Law of the Sea: Africa,
W76-07336 9-14 6E

NNAJI, S.
A Deterministic Model for Semi-Arid Catchments,
W76-02235 9-05 2E

Variability of Infiltration Characteristics and Water Yield of a Semi Arid Catchment,
W76-02742 9-06 2G

NOBBS, P. A.
Environmental and Intrinsic Control of Filtering and Feeding Rates in Arctic Daphnia,
W76-08933 9-17 5C

Light/Dark-Phased Cell Division in Euglena Gracilis (Z) (Euglenophyceae) in PO4-Limited Continuous Culture,
W76-13117 9-24 5C

NOBLE, C.
Microbiological Studies of the Lagoonal Complex Surrounding KSC (Kennedy Space Center),
W76-01895 9-04 2L

NOBLE, H. M.
Portable Breakwater with Ship Hulks,
W76-10459 9-19 8B

NOBLE, J. G.
Electrochemical process for Effluent,
W76-02313 9-05 5D

NOBLE, R. M.
Flood Protection of Crystal River Unit 3 Nuclear Plant,
W76-07210 9-14 4A

NOBLE, S.
A Post Construction Survey of Several Man-made Islands Off the Coast of California,
W76-09911 9-18 2L

NOCCIOLI, L.
Pollution in the Effluents of Bracciano Lake and in Arrone Stream, on the Basis of the Distribution of Simuliidae, Chironomidae, Culcidae and Other Diptera, (In Italian),
W76-11570 9-21 5B

NOCCIOLO, M.
Ecological Observations on Simuliidae of the Arrone River and Influents of the Bracciano Lake, (In Italian),
W76-07936 9-15 5C

NOE, L. A.
Biochemical Studies of Entrained Phytoplankton at the Morgantown Maryland Power Plant,
W76-08642 9-16 5C

NOEL, J. G.
Degree of Pollution of the Saint Lawrence River from Repentigny to Montmagny: II. Biochemical Pollution, (In French),
W76-06735 9-13 5B

Degree of Pollution of the Saint Lawrence River from Repentigny to Montmagny, (In French),
W76-06734 9-13 5B

NOGITA, S.
Centralized Control System of Sewerage (Gesuido Shuchu Seigyo Shisutemu),
W76-01058 9-03 5D

NOGUERA TALAR, J.
Contamination of the Sea, (In Spanish),
W76-11564 9-21 5C

NOICHL, O. J.
Wastewater Treatment System with Controlled Mixing,
W76-09433 9-18 5D

NOLAN, K. M.
Graphic and Tabular Summaries of Water and Suspended-Sediment Discharge During Eight Periods of Synoptic Storm Sampling in the Lower Drainage Basin of Redwood Creek, Humboldt County, California,
W76-04398 9-09 7C

Redwood National Park Studies Data Release Number 1: Redwood Creek, Humboldt County, California, September 1, 1973-April 10, 1974,
W76-02144 9-05 7C

NOLAN, W. J.
Feed and Fiber From Effluent-Grown Water Hyacinth,
W76-03551 9-08 5D

NOLTE, B. H.
Drainage Maintenance Programs in Ohio Counties,
W76-13009 9-24 4A

Sediment from Drainage Systems for a Heavy Soil,
W76-13001 9-24 3F

NOMIKOS, L. I.
A Transformations of Sulfate Turpentine in Natural Waters (Protsessy prevrashcheniya sul'fatnogo skipidara v prirodnykh vodakh),
W76-10845 9-20 5B

NOMURA, D.
Treatment of Liquid Waste from Soy Bean Food Processing Plants. (Recovery of Soybean Curd by Membrane Osmosis) (Daizu shokuhin seizo kojo no haisui no shori (Saizu nyusho no makutokaho ni kaishu)),
W76-04069 9-09 5D

NOMURA, S.
Coating Factory's Grouping in the City Area and Environmental Pollution Control (Kisei shigaichi ni sonritsu suru mekki kojo no shudanka to kogai taisaku),
W76-06980 9-14 5D

NONY, C. R.
Removal of Trace Levels of 2-Acetylaminofluorene (2-AAF) from Wastewater,
W76-05117 9-11 5D

NORALL, T. L.
Photosynthetic Studies of Chondrus Crispus,
W76-10060 9-19 5C

NORBECK, P. N.
Ground Water Leaching of Jig Tailing Deposits in the Coeur D'Alene District of Northern Idaho,
W76-06951 9-14 5B

NORDIN, C. F. JR.
Evaluation of Stochastic Models Describing Movement of Sediment Particles on Riverbeds,
W76-02959 9-06 2J

NORDSTEDT, R. A.
Land Disposal of Effluent from a Sanitary Landfill,
W76-00893 9-02 5E

NORDSTROM, C. E.
Description of Seasonal Beach Changes Using Empirical Eigenfunctions,
W76-03377 9-07 2L

Sand Level Changes on Torrey Pines Beach, California,
W76-12383 9-23 2L

NORGROVE, W. B.
The Tyneside Sewerage Scheme,
W76-09184 9-17 5D

NORLAND, R. L.
Insect Growth Regulators for the Control of Aquatic Midges,
W76-09997 9-18 5G

NORMAN, J. C.
Phosphorus Cycling and Luxury Phosphorus Storage by Algae in the Waters of Green Bay,
W76-11332 9-21 5C

NORMAN, K. K.
Characteristics of the Toxic Effect of Propylphenol Isomers and their Safe Level in Water Bodies, (In Russian),
W76-12850 9-24 5C

NORMAN, N. E.
Reuse of Water in the Pulp and Paper Industry,
W76-03578 9-08 3E

NORMAND, D.
Application of Dynamic Programming in Framing Operating Rules for a Multi-Purpose Dam,
W76-12541 9-23 4A

NORMARK, W. R.
Erosion on the Line Islands Archipelagic Apron: Effect of Small-Scale Topographic Relief,
W76-06386 9-13 2L

Sublacustrine Fan Morphology in Lake Superior,
W76-13079 9-24 5B

NORRIS, L. A.
Dicamba Residues in Streams After Forest Spraying,
W76-05949 9-12 5B

Effect of Cacodylic Acid and MSMA on Microbes in Forest Floor and Soil,
W76-05940 9-12 5C

The Impact of Timber Harvest, Fertilization, and Herbicide Treatment on Streamwater Quality in Western Oregon and Washington,
W76-05618 9-12 5B

Pesticide Residue Dynamics in a Forest Ecosystem: A Compartment Model,
W76-05946 9-12 5B

Soil Processes and Introduced Chemicals,
W76-05936 9-12 4C

NORRIS, R. A.
Hudson River Striped Bass Life Cycle Model,
W76-08634 9-16 5C

NORRIS, S. E.
Change in Drawdown Caused by Enlarging a Well in a Dolomite Aquifer,
W76-10088 9-19 4B

Geologic Structure of Near-Surface Rocks in Western Ohio,
W76-04989 9-10 2F

The Ground-Water Situation in the Circleville Area, Pickaway County, South-Central Ohio,
W76-00661 9-02 4B

NORRSTROEM, H.
Pollution Control in the Swedish Pulp a Paper Industry,
W76-05108 9-11

NORRSTROM, H.
Chlorination of Sulphate Pulp at High Te perature,
W76-04077 9-09

Effluents from Chlorination and Alkaline E traction of Pine Sulfate Pulp,
W76-10858 9-20

NORSE, E. A.
Effects of Sub-Normal Temperatures on So Common Los Angeles Harbor Animals,
W76-11796 9-22

NORSTADT, F. A.
Beef Cattle Feedlots: Impact on Underly Soil,
W76-11047 9-20

Pollution Abatement from Cattle Feedlots Northeastern Colorado and Nebraska,
W76-02762 9-06

NORTH, R. M.
Approaches to Multiobjective Planning Water Resource Projects,
W76-01335 9-03

Economic Implications of Coastal Wa Disposal Alternatives,
W76-11623 9-21

Planning and Selecting Multiobjective Proje by Goal Programming,
W76-06432 9-13

A Portfolio Approach to Public Water Pro Decision Making,
W76-05995 9-12

A Simulation Approach to the Analysis of certainty in Public Water Resources Project
W76-01510 9-04

Waste Disposal in Seafood Processing: Pu or Private,
W76-13102 9-24

NORTH, W. J.
Position Paper on the Effects of Acute Spills,
W76-11028 9-20

NORTHCOTE, T. G.
Chlorinated Hydrocarbon Residues in Fis from the Lower Fraser River,
W76-10505 9-20

Periphytic and Planktonic Algae of the Lo Fraser River in Relation to Water Quality C ditions,
W76-10504 9-20

NORTHROP, G. M.
Environmental Reconnaissance Techniques Connecticut River Basin Watersheds,
W76-01344 9-03

NORTON, D.
Geothermal Water Resources in Arizo Feasibility Study,
W76-04005 9-09

NORTON, D. C.
Eastern Lake Ontario Precipitation Network
W76-08412 9-16

TON, D. J.
e Effects of Currents and Waves on an Oil ick Retained by a Barrier,
76-02549 9-06 5G

TON, D. L.
Preliminary Analysis of the Energy and ater Requirements for Developing Geother- al Energy in Arizona,
76-00750 9-02 6D

TON, G. A.
e Economics of Pollution and its Control,
76-04542 9-10 5G

TON, R.
fety in Water and Wastewater Plants,
76-11652 9-22 5G

TON, S. A.
esent and Historic Geochemical Relation- ips in Four Maine Lakes,
76-04943 9-10 5B

RTSTROM, R. J.
Bioenergetics-Based Model for Pollutant Ac- mulation by Fish. Simulation of PCB and ethyl-Mercury Residue Levels in Ottawa iver Yellow Perch (Perca Flavescens),
76-12329 9-23 5C

RUTDINOV, R. G.
etroleum Processing Aq. Effluents Purifica- on,
76-03060 9-07 5D

RVELL, W. A.
Vater Chemistry and Fertility of Twenty-Three onnecticut Lakes,
76-06207 9-13 5C

SHIRO, M.
etermination of Organic Carbon in Water sing a PCO2 Electrode, (In Japanese),
76-00607 9-02 5A

SHKIM, V. E.
lutonium Radionuclides in the Groundwaters Enewetak Atoll,
76-08607 9-16 5B

SHKIN, V. E.
reliminary Evaluation of the Radiological uality of the Water on Bikini and Eneu slands,
76-12701 9-24 5C

SPAL, A.
esign of Alternating Diffuser Pipes,
76-10952 9-20 8B

TINI, M.
ffects of Oils on Baltic Littoral Community, s Studied in an Outdoor Model Test System,
76-10411 9-19 5C

TO, P.
nvironmental Isotopic Study of the Barremi- n-Jurassic Aquifer in South Dobrogea Roumania),
76-00894 9-02 2F

UKKA, K.
Vater Pollution Control in the Scandinavian ountries,
76-12473 9-23 5D

VAK, J. T.
olymer Conditioning of Chemical Sludges,
76-03822 9-08 5E

NOVAK, L. T.
A Mathematical Model for Phosphorus Movement in Soils,
W76-03802 9-08 5B

Phosphorus Movement in Soils: Soil-Orthophosphate Reaction Kinetics,
W76-08672 9-16 5B

Phosphorus Movement in Soils: Theoretical Aspects,
W76-05048 9-11 5B

NOVAK, P.
Sediment Transport in Smooth Fixed Bed Channels,
W76-02409 9-05 8B

NOVIKOV, V. M.
Sugar Plant Waste Water Utilized for Irrigation,
W76-12846 9-24 5D

NOVIKOV, Y. V.
Experimental Research Data on Hygienic Evaluation of the Method of Magnetic Treatment of Water, (In Russian),
W76-03536 9-08 5C

NOVIKOV, YU. B.
Hygienic Problems of the Protection of Surface Waters and Modern Technology in Industry, (In Russian),
W76-02354 9-05 5D

NOVIKOV, YU. V.
Hygenic Evaluation of Ionic Composition of an Imitation of Desalinated Sea Water, (In Russian)
W76-11529 9-21 5C

NOVITSKY, T.
Isolation and Characterization of Actinopolyspora Halophila, Gen. ET SP. Nov., An Extremely Halophilic Actinomycete,
W76-08837 9-17 5C

NOVITZKI, R. P.
Recycling Ground Water in Waushara County, Wisconsin: Resource Management for Cold-Water Fish Hatcheries,
W76-11082 9-20 4B

NOVODERZHKINA, Y. G.
Harmlessness of Grain Grown on Sewage Farms, (In Russian),
W76-12645 9-23 5C

NOVOSAD, C.
Impact Statement for the Aquatic Plant-Control Program-State of Texas,
W76-11146 9-21 6G

NOVOSELOVA, G. P.
The Role of Freshwater Fish as a Possible Supplier of P32 Under the Conditions of Pollution of Natural Water Reservoirs by this Radionuclide,
W76-06884 9-14 5B

NOVOTNY, V.
An Application of the Storm Water Management Model,
W76-09738 9-18 5D

NOVOZHILOVA, M. I.
Abundance and Biomass of Bacterioplankton of 'Tastaka' Ponds, (In Russian),
W76-08664 9-16 5C

NOWACKI, H.
Economics of Great Lakes Bulk Carriers in Winter Operations,
W76-02384 9-05 6B

NOWAK, K.
A Trial of Application of a Ionoselective Electrode for Nitrate Determination in Sanitary-Hygienic Examinations of Water (Proba Zastosowania Elektrody Jonoselektywnej Do Oznaczania Azotanow W Sanitarnym Badaniu Wody),
W76-01751 9-04 5A

NOWAK, K. E.
The Importance of Zooplankton in the Metabolism of Lake Schieren, (In German),
W76-11735 9-22 5C

NOWLIN, J. O.
Ground-Water Data Near the Northwest Shore of Topaz Lake, Douglas County, Nevada,
W76-05424 9-11 7C

A Preliminary Evaluation of the Chemical Character of Water Near the Northwest Shore of Topaz Lake, Douglas County, Nevada,
W76-11674 9-22 5A

NOWLIN, R. A.
Sediment Storage in Channels Draining Small Forested Watersheds in the Mountains of Central Idaho,
W76-07019 9-14 4D

NOWLIN, W. D. JR.
Movement of Surface Drifters in the American Mediterranean,
W76-00907 9-02 2L

NOY-MEIR, I.
Desert Ecosystems: Higher Trophic Levels,
W76-09064 9-17 2A

NOYES, O. R.
Formation of Methyl Mercury by Bacteria,
W76-02812 9-06 5A

NOZ, F. J.
Hydraulic Calculation of Sludge Pipelines in Waste Water Treatment Plants (De hydraulische berekening van slibwaterleidingen op rioolwaterzuiveringstallaties),
W76-09208 9-17 8C

NRIAGU, J. O.
Emission of Sulfur from Lake Ontario Sediments,
W76-12987 9-24 2J

Forms of Iron and Manganese in Lake Erie Waters,
W76-08528 9-16 5B

Lead Orthophosphates: III. Stabilities of Fluorophyromorphite and Bromopyromorphite at 25 C,
W76-09820 9-18 2K

NUGTEREN, I.
Technical Aspects of Water Conveyance and Distribution Systems,
W76-01886 9-04 3F

NUMANOI, H.
Decomposition of Particulate Organic Materials in Tokyo Bay at Summer Stagnation Period in 1972,
W76-07406 9-14 5C

NUNES, M. C.
Several Aspects of Bacteriologic Pollution in Mollusk-Producing Waters of Algarve, (In French),
W76-07293 9-14 5C

NURGIZARINOV, A. M.
The Effectiveness of Presowing Flooding of the Rice Fields in KZYL-ORDIA Oblast, (In Russian),
W76-02280 9-05 3F

NURMAGOMEDOV, G. N.
Characteristics of Hydrological and Hydrochemical Conditions of Arakum Water Bodies, (In Russian),
W76-04532 9-10 5C

NUSSBAUM, G.
Rain Storing Tank,
W76-13145 9-24 5D

NUTBROWN, D. A.
Normal Mode Analysis of the Linear Equation of Groundwater Flow,
W76-05685 9-12 2F

The Use of a Digital Model in the Management of the Chalk Aquifer in the South Downs, England,
W76-02714 9-06 4B

The Use of a Digital Model in the Management of the Chalk Aquifer in the South Downs, England,
W76-03356 9-07 4B

NUTI, S.
Environmental Isotopic Study of the Barremian-Jurassic Aquifer in South Dobrogea (Roumania),
W76-00894 9-02 2F

NUTT, M. E.
Tortuguero Bay Environmental Studies,
W76-12783 9-24 6G

NUTTER, L. J.
Harford County Ground-Water Information: Well Records, Chemical Quality Data, and Pumpage,
W76-03912 9-08 7C

NUWAYHID, M.
Effects of Crude Oil and Dispersants on Bi-Valves,
W76-11591 9-21 5C

NUZZI, R.
Academic Data-Needs for Environmental Assessments of Offshore Technological Operations,
W76-09914 9-18 6G

Effects of Water Soluble Extracts of Oil on Phytoplankton,
W76-09325 9-17 5C

An Interdisciplinary Study of the Estuarine and Coastal Oceanography of Block Island Sound and Adjacent New York Coastal Waters,
W76-02050 9-05 7B

NYANISHKENE, V. B.
The Role of Aquatic Plants in the Migration of Sr90 in Some Water Reservoirs of the Lithuanian SSR,
W76-06868 9-14 5B

NYE, J. C.
The NPDES Discharge Permit Program for Agricultural Point Sources,
W76-07165 9-14 5G

A Waste Management System for a 150-Cow Dairy--A 10-Year Case Study,
W76-07174 9-14 5D

NYE, J. F.
The Use of Erts Photographs to Measure the Movement and Deformation of Sea Ice,
W76-05399 9-11 7B

NYE, P. H.
The Influence of Soil Water Content on the Uptake of Ions by Roots: II. Chloride Uptake and Concentration Gradients in Soil,
W76-11925 9-22 2G

NYHAN, J. W.
Distribution of Plutonium in Soil Particle Size Fractions of Liquid Effluent-Receiving Areas at Los Alamos,
W76-08160 9-16 5B

NYHART, J. D.
The Interplay of Law and Technology in Deep Seabed Mining Issues,
W76-07816 9-15 6E

NYLANDER, G.
Recipient Investigation in the Lake Glafsfjorden,
W76-00058 9-01 5C

NYLANDER, W. A.
An Improved Method for the Isolation of Phenols from Water,
W76-08026 9-15 5A

NYLUND, J. E.
Secondary Effluent Treatment at Northwood Pulp and Timber Limited,
W76-09297 9-17 5D

NYMAN, D. J.
Surface-Water Resources of the Tangipahoa, Tchefuncta, and Natalbany River Basins, Southeastern Louisiana,
W76-08056 9-15 4A

O'BRIEN, G. P.
A Study of the Mexican Duck (Anas Diazi) in Southeastern Arizona,
W76-00381 9-01 2I

O'BRIEN, J. E.
Equilibria in Aqueous Solutions of Chlorinated Isocyanurate,
W76-00116 9-01 5F

O'BRIEN, J. H.
Polymer Conditioning of Chemical Sludges,
W76-03822 9-08 5E

O'BRIEN, J. J.
An Investigation of Antibiotic and Drug Residues in Fish,
W76-09124 9-17 5C

Mesoscale Variability of Sea Surface Temperatures,
W76-03739 9-08 2L

A Three-Dimensional Simulation of Coastal Upwelling Off Oregon,
W76-07775 9-15 2L

O'BRIEN, P. J.
Chemical Impact of Snow Dumping Practices,
W76-10049 9-19 5C

Decision Mapping - Tool for Underground Waste Management,
W76-11063 9-20 5B

O'BRIEN, W. J.
The Dynamics of Nutrient Limitation Phytoplankton Algae: A Model Reconsidered
W76-01540 9-04

Lagoons and Oxidation Ponds, (Literat Review),
W76-12671 9-23

Polishing Lagoon Effluents with Submerg Rock Filters,
W76-07049 9-14

O'BRIEN, W. T.
Some Components of an Ecosystem Model Westernport Bay,
W76-04148 9-09

O'CONNELL, P. F.
Effects of Pinyon-Juniper Removal on Natu Resource Products and Uses in Arizona,
W76-08108 9-16

O'CONNER, J. M.
Respiratory and Hematological Responses Oyster Toadfish (Opsanus Tau) to Suspend Solids,
W76-04909 9-10

O'CONNOR, D. J.
The Concentration of Dissolved Solids a River Flow,
W76-09577 9-18

A Food Chain Model of Cadmium in Westu Lake Erie,
W76-03310 9-07

O'CONNOR, G. A.
Predicting Ionic Distributions in Large S Columns,
W76-07234 9-14

O'CONNOR, J. S.
Contaminant Effects on Biota of the New Yo Bight,
W76-12229 9-23

O'CONNOR, K. M.
A Discrete Linear Cascade Model for Hydro gy,
W76-10946 9-20

O'CONNORS, H. B.
Fate of Wastewater Sludge in the New Yo Bight Apex,
W76-03825 9-08

O'CONNORS JR, H. B.
Sewage Sludge and Ammonium Concentratio in the New York Bight Apex,
W76-06667 9-13

O'DEA, J. F.
Evaluation of the Strength and Seakeep Ability of Pollution Control Barriers,
W76-02929 9-06

O'DEA, S.
Oil in the Arctic,
W76-09902 9-18

O'DELL, A. R.
Privately-Owned Water Supply Systems,
W76-01366 9-03

O'DOM, G.
Application of Pulse Polarography to Pollut Analysis,
W76-03529 9-08

ONNELL, D. F.
plications of Finite Element and Computer
aphics Techniques in Aquifer Analysis,
76-04931 9-10 2F

asibility of Modelling the Influences of Pit
charge on Groundwater Levels and Quality
Alluvial Basins,
76-11487 9-21 2F

ONNELL, J. M.
ocess for Treating Sewage Sludge and Fertil-
r Products Thereof,
76-08984 9-17 5D

ONNELL, T.
nceptual Model Design for Motorway
rmwater Drainage,
76-01062 9-03 2A

ONNELL, T. H.
ictuations of Ground-Water Levels in Lee
unty, Florida, in 1974,
76-12801 9-24 4B

ORMAN, J. V.
me Effects of Metals Discharged in Ef-
ents and Possibilities for Their Recovery,
76-01639 9-04 5D

ARA, S. C. M.
troleum Compounds in the Marine Food
eb: Short-Term Experiments on the Fate of
aphthalene in Calanus,
76-11181 9-21 5C

AYRE, A. P.
Hydronomic Analysis of Forest Management
ternatives for Environmental Quality: A
se Study of Itasca County,
76-02362 9-05 6B

EARN, J. P.
evelopment of Storm Drainage Cost Func-
ns,
76-08227 9-16 3D

ERRON, R. J.
vestigation of the Orion Research Cyanide
onitor,
76-00677 9-02 5A

EARY, J. W.
rowth, Water Consumption, and Salt Uptake
Tomato Plants in High Humidity- High Car-
n Dioxide Greenhouse Environments,
76-09075 9-17 3C

EARY, K. J.
ethod for Treating Sewage Water,
76-08394 9-16 5D

OUGHLIN, C.
he Effect of Timber Removal on the Stability
Forest Soils,
76-03361 9-07 4C

OUGHLIN, E. M.
ilution and Decay of Aquatic Herbicides in
lowing Channels,
76-00895 9-02 5B

odelling Water Quality,
76-04143 9-09 5B

EARA, D. M.
eat Treatment of Waste Sludges,
76-02597 9-06 5D

ELIA, C. R.
ate of Trace Metals in Los Angeles County
astewater Discharge,
76-00355 9-01 5B

Fate of Trace Metals in Los Angeles County Wastewater Discharge,
W76-00545 9-02 5B

Fate of Trace Metals in Los Angeles County Wastewater Discharge,
W76-01104 9-03 5B

Particles, Polymers, and Performance in Filtration,
W76-00229 9-01 5D

Predictive Model for Phosphorus in Lakes,
W76-03243 9-07 5B

O'NEAIL, T.
Parametric Data for Long Term Operation of a Vertical, Plane Surface, Falling Film, Vapor Compression Evaporator,
W76-06249 9-13 3A

O'NEEL, W. G.
Sam: A Sewer System Model for Public Works Engineers,
W76-01463 9-03 5D

O'NEILL, H. J.
Ozone Provides Alternative for Secondary Effluent Disinfection. Part 1,
W76-09445 9-18 5D

Ozone Provides Alternative for Secondary Effluent Disinfection Part 2,
W76-09715 9-18 5D

Ozone Provides Alternative for Secondary Effluent Disinfection Part 3,
W76-11213 9-21 5D

O'NEILL, I. C.
Transport of Materials in Streams,
W76-04136 9-09 2J

O'NEILL, J.
Sludge Activity and Full-Scale Plant Control,
W76-00252 9-01 5D

O'NEILL, K.
On the General Equations for Flow in Porous Media and Their Reduction to Darcy's Law,
W76-12199 9-23 2F

O'NEILL, P. G.
Towards System Models For Water Resource Management--A Comment,
W76-01603 9-04 6A

O'NEILL, R. V.
A Theoretical Basis for Ecosystem Analysis with Particular Reference to Element Cycling,
W76-10268 9-19 5C

O'REAR, C. W. JR.
The Effects of Stream Channelization of the Distribution of Nitrients and Metals,
W76-00501 9-02 5B

O'RIORDAN, J.
Okanagan Water Decisions,
W76-03630 9-08 5G

O'RIORDAN, T.
Okanagan Water Decisions,
W76-03630 9-08 5G

O'SHAUGHNESSY, F.
Desalting Plants Inventory, Report No. 4,
W76-06152 9-13 3A

O'SHAUGHNESSY, P. J.
Some Initial Effects on Water Quantity and Quality of an Experimental Roading and Timber Harvesting Operation in a Victorian Mountain Catchment,
W76-03447 9-07 4C

O'SULLIVAN, D. A.
Irradiation of Sewage Gains Adherents,
W76-00230 9-01 5D

O'SULLIVAN, D. J.
Treatment of Floating Pollutants,
W76-03508 9-08 5G

O'SULLIVAN, J.
The Effect of Breaker Shape on Impact Pressures in Surf,
W76-01499 9-03 2L

O'SULLIVAN, P. E.
Magnetic Susceptibility of Lake Sediments,
W76-03311 9-07 2J

OAKES, B. D.
Continued Studies on the Use of a Mixed Chromate-Phosphate Inhibitor in Desalination Service, Final Report,
W76-03190 9-07 3A

Continued Studies on the Use of a Mixed Chromate-Phosphate Inhibitor in Desalination Service: Part Two,
W76-03143 9-07 3A

OAKES, E. L.
Hydrology of the Lake Wingra Basin, Dane County, Wisconsin.
W76-00667 9-02 2H

Water Resources of Wisconsin-Upper Wisconsin River Basin,
W76-00094 9-01 7C

OAKEY, N. S.
Horizontal Coherence of Temperature Microstructure,
W76-01259 9-03 2L

OBAYASHI, A. W.
Biological Nitrification of Sludge Supernatant by Rotating Disks,
W76-05800 9-12 5D

Nitrification of a High Ammonia Content Sludge Supernatant by Use of Rotating Discs,
W76-03228 9-07 5D

OBEDIYENTOVA, G. V.
Rivers of the Past: Creators of Oil,
W76-05166 9-11 2J

OBERACKER, D. A.
Pesticide Incineration,
W76-10675 9-20 5E

OBERTEUFFER, J.
Sala-HGMS Magnetic Filters for the Treatment of Combined Sewer Overflow,
W76-11265 9-21 5D

OBERTEUFFER, J. A.
High Gradient Magnetic Filtration of Magnetic and Non-Magnetic Contaminants from Water,
W76-07763 9-15 5D

High-Gradient Magnetic Filtration of Steel Plant Waste Water,
W76-08710 9-16 5D

OBERTEUFFER, L.
High-Gradient Magnetic Separation,
W76-04787 9-10 5D

OBI, A. O.
The Wilting Point and Available Moisture in Tropical Forest Soils of Nigeria,
W76-07710 9-15 2G

OBREJANU, G.
Hydrosaline Regime of Some Soils in the Middle Part of the Calmatui River Basin. (In Rumanian),
W76-00573 9-02 2G

OBRIST, W.
Costs and Hygienic Necessity of Sewage Sludge Pasteurization in Switzerland,
W76-09542 9-18 5D

OBRO, H.
Groundwater Study of a Volcanic Area Near Bandung, Java, Indonesia,
W76-05914 9-12 4B

OBUKHOVA, V. A.
Micromorphology of Hydromorphic Soils of Irrawaddy River Delta, (In Russian),
W76-07273 9-14 2G

OCHI, S.
Study on the Balance of Heavy Metals in Activated Sludge Treatment Process (Gesui shori shisetsu ni okeru jukinzokurui no shushi ni kansuru kenkyu),
W76-09222 9-17 5A

OCHIAI,
On the Histological Structure and Function of Digestive Organs of the Fed and Starved Larvae of the Yellowtail, Seriola Quinqueradiata, (In Japanese),
W76-09088 9-17 2I

OCKERSHAUSEN, R. W.
Alum VS. Phosphate--Wastewater Treatment,
W76-00209 9-01 5D

ODARYUK, V. A.
New Method for the Determination of the Total BOD Content of Wastewaters (Novyy metod opredeleniya BPK-polnogo stochnykh vod),
W76-02193 9-05 5A

ODELL, R. T.
Partnership in Pollution Control,
W76-07164 9-14 5G

ODEN, V.
Apparatus for the Aeration of Effluent with Oxygen-Containing Gas,
W76-05035 9-11 5D

ODENING, W. R.
The Effect of Decreasing Water Potential On Net CO2 Exchange of Intact Desert Shrubs,
W76-02529 9-06 2I

ODUM, H. T.
Energy Cost-Benefit Models for Evaluating Thermal Plumes,
W76-03496 9-07 5C

Energy Quality Interactions of Sunlight, Water, Fossil Fuel, and Land,
W76-00754 9-02 3E

ODUM, W. E.
Potential Effects Of Aquaculture On Inshore Coastal Waters,
W76-03585 9-08 5C

OECHEL, W. C.
The Effect of Decreasing Water Potential On Net CO2 Exchange of Intact Desert Shrubs,
W76-02529 9-06 2I

OEHME, F. W.
Nitrates in Kansas Groundwaters as Related to Animal and Human Health,
W76-06754 9-13 5B

OEMIJATI, S.
Schistosomiasis and Other Human Parasitoses of Lake Lindu in Central Sulawesi (Celebes), Indonesia,
W76-12573 9-23 5C

OEPKE, W.
Fluidized Bed Furnace Having Coarse Particle Discharging Device,
W76-03661 9-08 5E

OERTEL, F. G.
Report on the Hydrologic and Sedimentologic Study of the Offshore Spoil Disposal Area, Savannah, Georgia,
W76-09309 9-17 5E

OFFERMANN, B. P.
Practical Aspects of the Pasteurization of Sewage Sludge by Electron Irradiation,
W76-09540 9-18 5D

OFTEDAL, R. L.
Federal Regulation in the Licensing of Nuclear Power Plant Facilities,
W76-12051 9-22 6E

OGANESYAN, G. A.
Rearing the Sevan Trout at the Aigerlich Trout Pond Fishery, (In Armenian),
W76-08371 9-16 2I

OGASAWARA, T.
Reutilization Experiments on Waste Water from Paper and Pulp Mills (Kami parupu kojo hisui no saisei ryo jikken),
W76-05482 9-11 5D

OGATA, A.
Two-Dimensional Steady-State Dispersion in a Saturated Porous Medium,
W76-13071 9-24 2F

OGATA, K. M.
Drainage Areas for Illinois Streams,
W76-03913 9-08 7C

OGAWA, T.
Biological Treatments of Acid Azo Dyes by Microbial Populations in Activated Sludge, (In Japanese),
W76-03074 9-07 5D

OGDEN, J. C.
Relation of Water Level and Fish Availability to Wood Stork Reproduction in the Southern Everglades, Florida,
W76-05850 9-12 2I

OGEDENGBE, O.
The Performance-Potential of Polyelectrolytes and High Velocity Gradients in the Treatment of Wastewaters,
W76-09179 9-17 5D

OGER, C.
The Microbiological Pollution of North Sea and English Channel Shore, (In French),
W76-09657 9-18 5C

OGG, C. W.
Acid Strip Mine Lake Recovery,
W76-07499 9-15 5G

OGILVIE, D. M.
Temperature Selection in Brook Trou (Salvelinus Fontinalis) Following Exposure t DDT, PCB or Phenol,
W76-07714 9-15 5

OGLESBY, R. T.
An Historical Perspective of Nutrient Input and Trophic States as Deduced from Cayug Lake Sediments,
W76-12463 9-23 5

Owasco Lake and its Watershed, a Summar Report With Two Appendices and Maps,
W76-06751 9-13 5

OGUNKANMI, A. B.
Detection and Preliminary Identification of En dogenous Antitranspirants in Water-Stresse Sorghum Plants,
W76-06026 9-12 2

OGURA, K.
Chemical Composition of Organic Compound Present in Water of the Tamagawa River, (I Japanese),
W76-00606 9-02 5

OGURA, N.
Chemical Composition of Organic Compound Present in Water of the Tamagawa River, (I Japanese),
W76-00606 9-02 5

OH, H-S.
An Economic Analysis of the Patterns an Trends of Water Consumption Within the Se vice Areas of the Honolulu Board of Wate Supply,
W76-00275 9-01 6

Economics of Urban Water Demand: A Cas Study of the Honolulu Board of Water Supply
W76-05455 9-11 6

OHKAWA, H.
Oil Adsorbent,
W76-12409 9-23 5

OHKUSU, M.
Observations of the Directional Spectrum Ocean Waves Using a Cloverleaf Buoy,
W76-03738 9-08 2

OHLY, D. C.
International Seabed Resources: The U. S Position,
W76-07814 9-15 6

OHMART, R. D.
Dynamics of Marsh Land Formation and Suc cession Along the Lower Colorado River an Their Importance and Management Problem as Related to Wildlife in the Arid Southwest,
W76-06589 9-13 4

OHMURA, A.
Experimental Studies on Glacier Climatology Especially for the Melt-Climate Relationships,
W76-01248 9-03 2

OHNMACHT, C. H.
Thermophilic Bacterial Oxidation of Highl Concentrated Substrates,
W76-01380 9-03 5

OHNO, I.
Process for Treating Aldehydes,
W76-04087 9-09 5

OHTA, M.
Method for Treating Waste Liquor,
W76-04209 9-09 5

TANI, K.
ceanographic Structure of the Mutu Bay, (In apanese),
/76-07946 9-15 2L

TO, T.
entralized Control System of Sewerage Gesuido Shuchu Seigyo Shisutemu),
/76-01058 9-03 5D

YA, H.
pplication of System Analysis in Two-Stage everse Osmosis Process Design for Water esalination,
/76-08076 9-15 3A

DE, M.
oating Factory's Grouping in the City Area nd Environmental Pollution Control (Kisei higaichi ni sonritsu suru mekki kojo no shu-anka to kogai taisaku),
/76-06980 9-14 5D

KARI, A.
Effect of a Sublethal Concentration of Phenol n Some Blood Plasma Enzyme Activities in he Pike (Esox Lucius L.) in Brackish Water,
/76-07977 9-15 5C

ZA, J. S.
Water Resources of Volcanic Islands, a Pilot Project in the Canaries,
/76-01258 9-03 2A

EDA, V.
The Lake Texcoco (Mexico) Sediments and heir Capacity to Support Vegetation, (In French),
/76-11738 9-22 2J

O, O.
Water Balance in Uganda,
/76-12204 9-23 2A

KADA, H.
Hydro-Separator for Slurry,
/76-02612 9-06 5D

KADA, M.
Simulation of BOD and do Balance with Respect to a Polluted Shallow River (Part I): Mathematical Model,
/76-01777 9-04 5B

Simulation of BOD and DO Balance with Respect To Polluted Shallow-River (Part 2): Simulation Example for Middle Course Tamagawa (Asai odaku kasen ni okeru BOD, DO shushi no simurashon (Dai 2 ho): Tamagawa churyuiki e no tekiyo rei),
/76-03446 9-07 5B

KAJIMA, Y.
Method of Preventing Scale From Being Deposited In Case of Producing Fresh Water From Sea Water,
/76-05971 9-12 3A

KALI, D. U. U.
Phenology and Productivity of Pistia Stratiotes L. on the Volta Lake, Ghana,
/76-08036 9-15 5C

KAMOTO, Y.
Removal of Toxic Trace Elements by Foam Separation: A Study of the Removal of Cadmium and Mercury Ions by the Foam Separation Technique Using Selective Complexing Surfactant,
/76-04669 9-10 5D

OKAMURA, H.
Investigations on the Conditions for Wet Air Oxidation of Collagen and Tallow as Main Components of Tannery Waste, (In Japanese),
W76-00121 9-01 5D

On the Wet Air Oxidation Products of Collagen and Tallow, (In Japanese),
W76-00131 9-01 5D

OKANENKO, A. S.
Sugar Beet Photosynthesis and Productivity Cultivated by Irrigated Farming in the Kirgiz SSR, (In Russian),
W76-09810 9-18 3F

OKAWA, K.
Method and Apparatus of Treating Industrial Waste Liquid,
W76-02603 9-06 5D

OKAWA, T.
Waste Water Treatment by Gas Intake Apparatus (Kitai makikomisochi ni yoru haisui shori),
W76-04034 9-09 5D

OKERT, A. P.
Apparatus and Method for Electrolytic Sewage Treatment,
W76-04609 9-10 5D

OKLAND, K. A.
Macrovegetation and Ecological Factors in Two Norwegian Lakes,
W76-06044 9-12 5C

Phytoplankton and Eutrophication in Some Lakes in Vestfold, South Norway,
W76-00613 9-02 5C

OKUBO, W. I.
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W76-08776 9-17 5C

OKUDA, H.
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W76-07651 9-15 5D

OKUDA, T.
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W76-08276 9-16 5A

Removal of Heavy Metals from Wastewater by Ferrite Coprecipitation,
W76-02577 9-06 5D

OKUN, D. A.
Strategies for Assuring High Quality Drinking Water in the Future,
W76-03431 9-07 5F

Water Management in England: A Regional Model,
W76-03207 9-07 6B

OLAH, J.
Primary Production in the Frozen Lake Balaton,
W76-09991 9-18 5C

OLBRICH, S. E.
Serum Constituents of the Malaysian Prawns (Macrobrachium Rosenbergii) and Pink Shrimp (Penaeus Marginatus),
W76-07966 9-15 5C

OLDFIELD, F.
Magnetic Susceptibility of Lake Sediments,
W76-03311 9-07 2J

OLDFIELD, J. E.
Swine Waste Nutrient Recovery System Based on the Use of Thermal Discharges,
W76-07179 9-14 5D

The Use of Waste Heat in a System for Animal Waste Conversion with By-Product Recovery and Recycling,
W76-01806 9-04 5D

OLDS, F. C.
Environmental Cleanup 1975-1985: Huge New Costs,
W76-03322 9-07 5G

OLDSHUE, J. Y.
The Role of Mixing in Equalization,
W76-00237 9-01 5D

OLECH, A.
Water Ozonation Plant at Wroclaw (Stacja ozonowania wode we Wroclawiu),
W76-03674 9-08 5F

OLECKNO, W. A.
Predicting the Water Pollution Potential of Proposed Sanitary Landfills Part I: Sanitary Landfill Leachate...What It Is,
W76-10013 9-19 5B

Predicting the Water Pollution Potential of Proposed Sanitary Landfills Part II: An Index of the Water Pollution Potential of Sanitary Landfills,
W76-10014 9-19 5B

OLEINIK, G. N.
Experimental Study of the Effect of Temperature and Degree of Oxygen Saturation on the Destruction rate of Soluble Proteins in Natural Waters, (In Russian),
W76-09078 9-17 5C

OLENIK, T. J.
Operation and Impact of NPDES in Region II, Part I,
W76-10005 9-19 5G

Operation and Impact of NPDES in Region II, Part 2,
W76-13059 9-24 5G

OLEXSEY, R. A.
Improving the Fuel Value of Sewage Sludge,
W76-10234 9-19 5E

Thermal Degradation of Sludges,
W76-07242 9-14 5E

OLGAC, N. M.
Optimal Allocation of Measurement and Control Resources with Application to River Depollution,
W76-10017 9-19 5A

OLIGER, G.
Denver Seeks Tomorrow's Water Today,
W76-01779 9-04 4A

OLIVE, J. H.
Summer Phytoplankton Photosynthesis in a Northeastern Ohio Glacial Lake,
W76-08828 9-17 5C

OLIVE, L. J.
Bacterial Pollution in Lake Burley Griffin,
W76-05407 9-11 5C

OLIVER, B. G.
The Efficiency of Heavy Metal Removal by a Conventional Activated Sludge Treatment Plant,
W76-03306 9-07 5D

Metal Concentrations in the Sewage, Effluents, and Sludges of Some Southern Ontario Wastewater Treatment Plants,
W76-03343 9-07 5A

OLIVER, C. S.
A Multidisciplinary Approach to Solving Community Water Problems,
W76-04391 9-09 10D

OLIVER, J. C.
An Analysis of Dairy Waste Management Alternatives for Southern California Dairymen,
W76-10534 9-20 5G

On the Horns of the Dairy Waste Dilemma,
W76-05175 9-11 5D

OLIVER, J. W.
Heavy Metal Release by Chlorine Oxidation of Sludges,
W76-03789 9-08 5D

Thickening of Coagulant Aided Primary Wastewater Sludges,
W76-03720 9-08 5D

OLIVIERI, V. P.
Virus Removal in an Activated Sludge Plant,
W76-10230 9-19 5D

OLIVOTTI, R.
A Comparison Between the Efficacy of Submarine Outfall Disposal of Advanced Primary Effluent and Conventional Treatment,
W76-09448 9-18 5E

OLLA, B. L.
The Effect of Temperature on the Behavior of Marine Fishes, a Comparison Among Atlantic Mackerel, Scomber Scombrus, Bluefish, Pomatomus Saltatrix, and Tautog, Tautoga Onitis,
W76-09507 9-18 5C

OLLMAN, R. H.
Time-Of-Travel of Solutes in the Trinity River Basin, Texas, September 1973 and July-August 1974,
W76-05426 9-11 7C

OLMSTEAD, W.
Trace Element Concentrations of Sewage Treatment Plant Effluents and Sludges; Their Interactions with Soils and Uptake by Plants,
W76-06332 9-13 5B

OLMSTED, F. H.
Geohydrologic Reconnaissance of the Imperial Valley, California,
W76-08052 9-15 4B

OLNESS, A.
Nutrient and Sediment Discharge from Agricultural Watersheds in Oklahoma,
W76-01116 9-03 2A

OLOFFS, P. C.
Chlorinated Hydrocarbon Residues in Fishes from the Lower Fraser River,
W76-10505 9-20 5C

OLOFINBOBA, M. O.
Effects of Antitranspirants on Distribution and Utilization of Photosynthate in Pinus Resinosa Seedlings,
W76-06792 9-13 2I

OLSEN, J. S.
Irrigation Method as a Determinant of Large Pore Persistence and Crust Strength of Cultivated Soils,
W76-00699 9-02 2G

OLSEN, R. A.
Orientation of Clay Particles as it Relates to Crusting of Soil,
W76-04097 9-09 2G

OLSEN, R. D.
The Phytoplankton of Canyon Lake, Arizona,
W76-02459 9-05 5C

OLSEN, R. J.
Comparison of Inorganic Nitrogen Contents of Undisturbed, Cultivated, and Barnyard Soil Profiles in Wisconsin,
W76-05263 9-11 5B

OLSON, D. G.
Systems Description of the U.S. Coast Guard Maritime Environmental Protection Program,
W76-04330 9-09 5G

OLSON, D. T.
Comparative Toxicity of Sewage-Effluent Disinfection to Freshwater Aquatic Life,
W76-10898 9-20 5C

OLSON, E.
Manure Holding Ponds found Self-Sealing,
W76-04428 9-09 5D

OLSON, E. A.
Locating a New Feedlot,
W76-01383 9-03 5B

OLSON, E. H.
Dairy Waste Storage Ponds for Soil-Plant Recycling,
W76-04421 9-09 5D

OLSON, G. F.
Mercury Residues in Fathead Minnows, Pimephales Promelas Rafinesque, Chronically Exposed to Methyl-Mercury in Water,
W76-00875 9-02 5C

OLSON, G. R.
A Proposed Methodology for Assessing Alternative Technologies,
W76-13049 9-24 6G

OLSON, J. J.
Fracturing in the Zone Around a Blasthole, WhitePine, Minnesota,
W76-00035 9-01 8B

OLSON, L. E.
Toxicity of Natural Pyrethrins and Five Pyrethroids to Fish,
W76-12742 9-24 5C

OLSON, L. L.
Interactions of Aqueous Chlorine with Activated Carbon,
W76-00114 9-01 5F

OLSON, P. P.
Costs of Controlling Feedlot Surface Runoff,
W76-00458 9-01 5G

OLSON, R. L.
Alum Sludge Drying with [Basic Extract Treatment,
W76-12641 9-23

Industrial and Municipal Sludge Dewater The Boeing 'Best' System,
W76-03816 9-08

OLSON, T. C.
The Effect of Soil Water Supply on Corn [tilizer Response,
W76-01075 9-03

OLSON, W. O.
Method and Apparatus for Conserving Wate
W76-02607 9-06

OLSSON, G.
A Computer Based Operational Strategy for Joint Treatment of Municipal and Indus Wastewaters,
W76-11659 9-22

OLSSON, H-A.
Water Quality Studies and Land-Use Map Using ERTS-1 Data,
W76-01792 9-04

OLSSON, I.
Benthic Fauna and Zooplankton in Some luted Swedish Estuaries,
W76-01194 9-03

OLSSON, M.
Mercury Level as a Function of Size and in Northern Pike, One and Five Years After Mercury Ban in Sweden,
W76-11401 9-21

OLSSON, O.
Influence of Colloidal Particles on Dewate of Activated Sludge with Polyelectrolyte,
W76-03680 9-08

OLSZEWSKI, J. L.
Estimation of Cooling Power in a Decidu Forest Stand,
W76-03064 9-07

OLTHOF, M.
Coagulation of Textile Waste Water,
W76-12420 9-23

OLUFEAGBA, B. J.
A Boundary Value Approach for Estua Water Quality Modelling with Results for Ja ica Bay, New York,
W76-11881 9-22

Distributed Parameter Systems Approximat for Estuarine Water Quality Modelling Control,
W76-02565 9-06

Shooting Models for Salinity and Coliform,
W76-08134 9-16

OLUNDH, E.
Benthic Fauna and Zooplankton in Some luted Swedish Estuaries,
W76-01194 9-03

OMANG, R. J.
Annual Peak Discharges from Small Drain Areas in Montana Through September 1975,
W76-08049 9-15

Floods of May-July 1975, Along the Contin tal Divide in Montana,
W76-11675 9-22

Method for Estimating Magnitude and requency of Floods in Montana,
/76-05422 9-11 4A

ATA, I.
nstrumentation and Control for Water Works uidosetsubi no keisoku to seigyo),
/76-09024 9-17 5F

ATSOLA, M. E.
cology of the Ogun River Estuary, Nigeria,
/76-07411 9-14 2L

I, S.
Vaste Water Treating Operation Using icrobial Membrane (I). Analysis of Re-stance to Movement within Liquid Phase,
/76-03230 9-07 5A

MANNEY, C. S. L.
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/76-10494 9-19 2C

MANNEY, S.
he Canadian Glacier Inventory,
/76-01245 9-03 2C

OLOKUN, A. O.
he Hydrology of a Small Catchment Basin at amaru, Nigeria: I. Seasonal Fluctuations in ne Height of the Ground Water Table,
/76-01230 9-03 2F

BE, T.
he Developmental Stages of Pseudodiaptomus Marinus Sato (Copepoda, Calanoida) Reared in he Laboratory,
/76-00336 9-01 5C

GERTH, H. J.
Organic Chemicals in Drinking Water,
/76-03428 9-07 5F

GERTH, J. E.
tudy of Silver Lake Eutrophication--Current roblems and Possible Solutions,
/76-04568 9-10 5C

GLEY, E. D.
ediment Yields and Nutrient Loadings from anadian Watersheds Tributary to Lake Erie: n Overview,
/76-08529 9-16 5B

ISHI, Y.
tudies of Columbia River Water Quality evelopment of Mathematical Models for Sedi-ent and Radionuclide Transport Analysis,
/76-12702 9-24 5B

Undistorted Movable-Bed Model Study for a River and Power Plant Intake System,
/76-09971 9-18 8B

O, K.
he Development of 'Mitsui Knit Flow' Types ctivated Sludge Aeration Tank (Mitsui hen-yushiki kassei odeiho bakkiso no kaihatsu),
/76-03075 9-07 5D

O, M.
hemical Recovery Process for Spent Cooking iquors,
/76-07523 9-15 5D

ODERA, T.
entralized Control System of Sewerage Gesuido Shuchu Seigyo Shisutemu),
/76-01058 9-03 5D

ONSTAD, C. A.
The Effect of Soil Water Supply on Corn Fertilizer Response,
W76-01075 9-03 3F

Watershed Soil Detachment and Transportation Factors,
W76-08551 9-16 2J

ONUF, C. P.
An Analysis of the Main Scientific Papers Dealing with Long Term Low Level Effects of Oil Pollution,
W76-11022 9-20 5C

The Biological and Ecological Effects of Oil Pollution in Tropical Waters. An Annotated Bibliography,
W76-11936 9-22 5C

ONYEKWELU, S. S. C.
The Vegetation of Dune Slacks at Newborough Warren: III. Plantago Coronopus,
W76-12911 9-24 3C

OOHARA, S.
Method and Apparatus for Cleaning Waste Liquid Containing Diluted Dye,
W76-04065 9-09 5D

OOSTERVELD, M.
Time Series Analysis of a Watershed Response Variable,
W76-02699 9-06 2E

OPALATENKO, L. K.
Age Composition and Growth of Aspius Aspius (L.) in the Lower Volga, (In Russian),
W76-08255 9-16 2I

OPDERBECK, F.
On the Composting of Wastes From the Pulp and Paper Industry (Ueber die Verkompostierung von Abfaellen der Zellstoff und Papierindustrie),
W76-00038 9-01 5E

OPPELT, E. T.
An Alternative Septage Treatment Method: Lime Stabilization/Sand-Bed Dewatering,
W76-02759 9-06 5D

OR, T. II
Removing Oil Substances from Water, Roads, Tools and Machines,
W76-02849 9-06 5G

ORAND, A.
Physico-Chemical Parameters of the Hydrographic System of Lake Nantua: Relation with Oscillatoria, (In French),
W76-11575 9-21 5C

ORBACH, S.
Determining the Concentration of Oil in Water Samples by Infrared Spectrophotometry. Phase II. Interlaboratory Study. Volume II,
W76-09900 9-18 5A

Determining the Concentration of Oil in Water Samples by Infrared Spectrophotometry. Phase II. Interlaboratory Study. Volume III,
W76-09901 9-18 5A

ORBAN, J.
Foraminous Composition for Removal of Oleophilic Material from the Surface of Water,
W76-03012 9-07 5G

ORCUTT, R. G.
Optimal Planning of Regional Wastewater Systems and their Impacts on Stream Quality With a Case Study of the Carson River Basin,
W76-01524 9-04 5F

ORDONEZ, J. I.
Modeling Sediment Deposition in a Tidal River,
W76-10447 9-19 2L

OREGIONI, B.
Flux of Cadmium Through Euphausiids,
W76-02327 9-05 5C

ORGERON, C.
LCHF Coastal Sediment Modeling Techniques,
W76-10463 9-19 2L

ORHON, D.
The Lower Trophic Level Toxicity Assessment in the Golden Horn Area in Istanbul,
W76-02324 9-05 5C

ORHUN, A.
Coupled Saturated-Unsaturated Transient Flow in Porous Media: Experimental and Numeric Model,
W76-05684 9-12 2F

ORLANDINI, K. A.
The Chemical Speciation of PU-239, PU-240 and CS-137 in Lake Michigan Waters,
W76-05889 9-12 5B

Study of the Behaviour of Transuranics and Possible Chemical Homologues in Lake Michigan Water and Biota,
W76-08598 9-16 5C

ORLITA, A.
Water Quality Aspects of Tannery Effluents Disposal,
W76-01645 9-04 5D

ORLOB, G. T.
A Conceptual Representation of the New York Bight Ecosystem,
W76-08411 9-16 5B

Discussion (Of, 'Interdisciplinary Modeling of Limnological Aspects of the Great Lakes,' by L.T. Crook),
W76-00069 9-01 2H

Problems and Techniques of Marine Biology in the Field: Modeling the Marine Ecosystem,
W76-10355 9-19 5C

ORLOCI, I.
Optimal Development Programme for Regional Water Supply Systems,
W76-12563 9-23 6A

ORLOCZI, I.
Water Resources Development in the Tisza River Basin and Its Impact on Socio-Economic Growth,
W76-05519 9-11 4A

ORLOV, A. A.
Hygienic Evaluation of the Quality of Water Desalinated in Industrial Electrodialysis Installations Under Conditions of Country Settlements, (In Russian),
W76-12910 9-24 5F

Study of the Effect of Water Desalinated by Electrodialysis on Some Biological Objects, (In Russian),
W76-11548 9-21 5D

ORLOV, A. S.
Measurement of the Structure of River Flow,
W76-06180 9-13 2E

ORLOVA, A. I.
Ecological Variability of Bream in Lithuanian Waters: 2. Age and Growth Rate, (In Russian),
W76-10519 9-20 5C

ORLOVA, E. I.
The Conduct of Certain Long-Lived Isotopes in Rocks in the Case of Their Contamination with Nontechnical Effluents of the Atomic Electric Power Stations (AES), (In Russian),
W76-12908 9-24 5B

ORNES, W. H.
Assessing a Marsh Environment for Wastewater Renovation,
W76-00892 9-02 5D

Phosphorus Removal from Static Sewage Effluent Using Duckweed,
W76-05775 9-12 5D

OROFINO, T. A.
Design, Construction, and Field Test Evaluation of a Hollow Fine Fiber Module,
W76-03156 9-07 3A

ORR, H.
A Comparison of Decision Making and Administrative Organization for Municipal Water Supplies in Medium-Sized and Small Illinois Municipalities,
W76-01503 9-04 6E

ORR, H. K.
The Black Hills (South Dakota) Flood of June 1972: Impacts and Implications,
W76-06360 9-13 2E

Mine Spoil Reclamation Research at the Belle Ayr Mine, Northeast Wyoming,
W76-06361 9-13 5G

Recovery from Soil Compaction on Bluegrass Lange in the Black Hills,
W76-06405 9-13 2G

Recovery from Soil Compaction on Bluegrass Range in the Black Hills,
W76-06362 9-13 4D

ORSBORN, J. F.
Regional Instream Flow Needs in the Pacific Northwest: An Analysis of Institutional, Legal, and Technological Aspects of Allocation Processes for Limited Streamflow,
W76-01797 9-04 6B

Relationships of Low, Average and Flood Flows for Streams in the Pacific Northwest,
W76-01507 9-04 2E

Study of Silver Lake Eutrophication--Current Problems and Possible Solutions,
W76-04568 9-10 5C

ORTH, H.
Influence of Special Constructions in Regional Waste Water Systems and their Role in Mathematical Models for Planning.
W76-12545 9-23 5D

ORTIZ Y LEON, G.
The Tuxtepec Paper Mill (Oaxaca, Mexico) and Pollution of the Papaloapan River (La Fabrica de Papel Tuxtepec y la contaminacion del Rio Papaloapan),
W76-03577 9-08 5C

ORTOLANO, L.
NEPA's Influence on Federal Water Planning: Part I, Effect of the 'Review and Comment Process' on the Corps of Engineers and Soil Conservation Service,
W76-01800 9-04 6B

NEPA's Influence on Federal Water Planning: Part 2, Case Studies of Corps of Engineers' Planning in California,
W76-01801 9-04 6B

Water Plan Ranking and the Public Interest,
W76-06438 9-13 6B

Water Resources Decision Making on the Basis of the Public Interest,
W76-01015 9-03 6A

ORVILLE, H. D.
Cloud Seeding to Enhance Summer Rainfall in the Northern Plains,
W76-06612 9-13 3B

Radar Reflectivity Factor Calculations in Numerical Cloud Models Using Bulk Parameterization of Precipitation,
W76-01860 9-04 2B

OSAMU,
Studies on a Purified Diet of Prawn: IV. Evaluation of Protein, Free Amino Acids and Their Mixture as Nitrogen Source, (In Japanese),
W76-12992 9-24 5C

OSAWA, A.
Thiuram Polysulfide Heavy Metal Remover,
W76-10466 9-19 5D

OSBORN, H. B.
Applicability of the Universal Soil Loss Equation to Semiarid Rangeland Conditions in the Southwest,
W76-02222 9-05 2J

OSBORN, J.
Adjustments Due to a Declining Groundwater Supply: High Plains of Northern Texas and Western Oklahoma,
W76-10874 9-20 4B

OSBORN, J. F.
Soil Water Repellency and the Use of Nonionic Surfactants,
W76-04001 9-09 2G

OSBORN, T. R.
The Role of Tidal Mixing in Rupert and Holberg Inlets, Vancouver Island,
W76-02413 9-05 2L

OSCHWALD, W. R.
Erosion for Corn Tillage Systems,
W76-09248 9-17 3F

OSDOR, A.
Method and Apparatus for Drying Moisture-Containing Solids, Particularly Domestic Refuse and Sludge Cakes,
W76-08404 9-16 5D

OSE, Y.
Studies on Floc-Forming Substances in Activated Sludge. II. Floc-Forming Action by the Viscous Substance Extracted from Activated Sludge by Alkaline Solution. (In Japanese),
W76-00645 9-02 5D

OSHIDA, P.
The Effect of Various Water Temperatures on the Survival and Reproduction in Polychaetous Annelids: Preliminary Report,
W76-11797 9-22 5C

OSHIMA, H.
Wasteless Liquid Treatment System for Surface Coating Plants (Hyomen shori shisetsu ni okeru muhaisui shori shisutemu ni tsuite),
W76-07625 9-15 5D

OSHIMA, N.
Process for Treating Aldehydes,
W76-04087 9-09 5D

OSMOND, P. J.
Development of Design Guidelines for Shore Side Holding Tanks.
W76-07681 9-15 5D

OSSIANDER, F. J.
Fish Diversion Systems and Biological Investigation of Horizontal Traveling Screen Model VII,
W76-08648 9-16 8

OSTAPLYUK, E. D.
Carbohydrate Transformation in Wheat and Rye Plants Under Effect of Flooding in the Autumn-Winter Period, (In Russian),
W76-08307 9-16 3F

OSTER, J. D.
Calculated Drainage Water Compositions and Salt Burdens Resulting from Irrigation with River Waters in the Western United States,
W76-08671 9-16 5B

Minimizing the Salt Burdens of Irrigation Drainage Waters,
W76-00828 9-02 3C

Water Quality in Irrigated Watersheds,
W76-08679 9-16 5B

OSTERBERG, C. G.
Sealing of Anaerobic Dairy Waste Lagoons in Sandy, High Water Table Soils,
W76-00445 9-01 5E

OSTERKAMP, T. E.
Nucleation Characteristics of Stream Water and Frazil Ice Nucleation,
W76-05695 9-12 2C

Structure and Properties of Ice Lenses in Frozen Ground,
W76-03140 9-07 2C

OSTERKAMP, W. R.
Variation and Causative Factors of Sediment Yields in the Arkansas River Basin, Kansas,
W76-09839 9-18 2

OSTMAN, B. A-L.
Biochemical and Chemical Oxygen Demands of Carbohydrates with Different Degrees of Polymerization,
W76-05303 9-11 5D

OSTRANDER, C. E.
Surmounting the Poultry Waste Problem,
W76-12348 9-23 5D

Systems and Situations for Handling Poultry Wastes,
W76-00920 9-02 5D

Techniques that are Solving Pollution Problem for Poultrymen,
W76-07166 9-14 5D

RANDER, N. C.
pplicability of ERTS to Antaractic Iceberg esources,
76-02048 9-05 7B

REM, G.
rts Data in Glaciology--an Effort to Monitor lacier Mass Balance from Satellite Imagery,
76-05397 9-11 7B

valuation of Glacier Mass Balance by Observ- g Variations in Transient Snowline Positions,
76-08322 9-16 2C

ROVSKI, YA. A.
ternational-Legal Protection of the Seas from ollution,
76-12034 9-22 6E

WALD, G. K. A.
nvestigations of Sub-Ice Bedrock Charac- ristics by Radio-Echo Sounding,
76-05377 9-11 2C

WALD, W. J.
ydraulic Handling of Poultry Manure In- grated into an Algal Recovery System.
76-00915 9-02 5D

hotosynthetic Reclamation of Agricultural olid and Liquid Wastes,
76-12349 9-23 5D

olar Energy Fixation and Conversion with lgal Bacterial Systems,
76-12968 9-24 5D

WALT, N. R.
Fourmile Run Local Flood-Control Project, lexandria and Arlington County, Virginia; ydraulic Model Investigation,
76-07469 9-15 8B

A, R.
n Aspect of the Solids Retention Time Con- rol in the Activated Sludge Process (Kassei den purosesu ni okeru yojo oden no haishut- u),
76-00356 9-01 5D

AKE, H.
imulation of BOD and do Balance with espect to a Polluted Shallow River (Part I): lathematical Model,
76-01777 9-04 5B

imulation of BOD and DO Balance with espect To Polluted Shallow-River (Part 2): imulation Example for Middle Course amagawa (Asai odaku kasen ni okeru BOD, O shushi no simurashon (Dai 2 ho): amagawa churyuiki e no tekiyo rei),
76-03446 9-07 5B

ANI, M.
pparatus for Photo-Oxidation of Water,
76-04287 9-09 5D

HMER, D. F.
igestion of Aqueous Wastes with Oxygen ressure-Recycling Oxidation Sewage Treat- ent,
76-12663 9-23 5D

IS, R. J.
erformance of Single Household Treatment nits,
76-12637 9-23 5D

LET, R. L.
he Age of Groundwater in the Chalk of the ondon Basin,
76-11848 9-22 2F

OTLEY, M.
Monitoring Coastal Water Properties and Current Circulation with ERTS-1,
W76-02044 9-05 7B

OTO, T.
Recent Trends of Instrumentation, Control, and Automation Systems for Wastewater Treatment Systems (Gesuido shisutemu seigyo no doko),
W76-00604 9-02 5D

OTSTAVNOV, A. A.
Dimensioning of Underground Sewer Pipelines Made of Plastic Tubes (Raschet podzemnykh kanalizatsionnykh truboprovodov iz polimernykh trub),
W76-08962 9-17 8B

OTSU, V.
Periodicity in the Biometric Variations of Loxechinus Albus Molina, (In Spanish),
W76-09089 9-17 2I

OTSUKI, A.
Release of Dissolved Organic Matter by Autolysis of a Submersed Macrophyte, Scirpus Subterminalis,
W76-11942 9-22 5C

OTT, E. K.
Alignment Control Apparatus for Center Pivot Irrigation Equipment,
W76-10957 9-20 3F

OTT, G. O.
Cost of Producing Crops in the Irrigated Southwest, Part II: New Mexico,
W76-09475 9-18 3F

OTT, W. R.
An Improved Model for Analysis of Air and Water Pollution Data,
W76-11606 9-21 5B

OTTE, L. E.
An Evaluation of the Rainbow Trout-Warmwater Species Fishery in Parker Canyon Lake,
W76-02454 9-05 2H

OTTERMAN, J.
Some Environmental Problems and Their Satellite Monitoring,
W76-01791 9-04 5B

OTTO, G.
Stability of Lignins in Sulfite Mill Wastewaters to Biochemical Oxidation (Zur Stabilitaet von Sulfitzellstoff- abwasserligninen gegenueber biochemischer Oxydation),
W76-02478 9-05 5D

OTTO, G. H.
Water Use Policies and Power Plant Economics,
W76-09776 9-18 5G

OTTO, N. E.
Investigations of Aquatic Weed Control Methods and Their Environmental Effects on Nontarget Aquatic Species,
W76-06218 9-13 4A

Survey of Irrigation Canal Ecological Parameters Influencing Aquatic Weed Growth,
W76-07609 9-15 4A

OTTO, R. G.
Laboratory and Field Tests of Temperature Tolerance on Gambusia A. Affinis, the Western Mosquitofish,
W76-08798 9-17 5C

OTTON, E. G.
Cockeysville Quadrangle: Geology, Hydrology and Mineral Resources,
W76-04407 9-09 7C

OTVOS, E. G.
Phase III: Sedimentology,
W76-09241 9-17 2L

OTWELL, W. S.
Survival and Growth of Juvenile Striped Bass, Morone Saxatilis, in a Factorial Experiment with Temperature, Salinity, and Age,
W76-02390 9-05 5C

OU, H-W.
On The Possibilities of Coastal, Mid-Shelf, and Shelf Break Upwelling,
W76-03731 9-08 2L

OU, L-T-,
Review and Evaluation of Available Techniques for Deterimining Persistence and Routes of Degradation of Chemical Substances in the Enviroment,
W76-12865 9-24 5A

OUELLET, Y.
Effects of Structures on Irregular Waves Compared to Regular Waves,
W76-03119 9-07 8B

Principle of Management of Degenerated Inlets and Estuaries,
W76-09958 9-18 8B

Simulation of the Salinity Distribution in the St. Lawrence Estuary by a Two-Dimensional Mathematical Model,
W76-10443 9-19 5B

OUSBY, J. C.
Novel Aeration System Bows,
W76-06289 9-13 5D

OUTCALT, S. I.
The Analysis of the Near-Surface Energy Transfer Environment from Thermal Infrared Imagery,
W76-05390 9-11 7B

Computer Simulation of the Snwomelt and Soil Thermal Regime at Barrow, Alaska,
W76-02703 9-06 2C

Correlation of Dual-Channel Airborne IR Data with Soil Moisture Measurements,
W76-06660 9-13 2G

A Digital Computer Simulation of the Annual Snow and Soil Thermal Regimes at Barrow, Alaska,
W76-04674 9-10 2C

OUTLAW, D. G.
Lake Erie International Jetport Model Feasibility Investigation; Report 17-3, Longshore Wave Energy Analyses,
W76-07470 9-15 8B

OUZILLEAU, J.
Zonation of Snow Conditions in Forest-Tundra, Hudson Bay, New Quebec, (In French),
W76-08759 9-17 2C

OVENSHINE, A. T.
The Placer River Silt--An Intertidal Deposit Caused by the 1964 Alaska Earthquake,
W76-08560 9-16 2J

OVERATH, H.
Contribution to Optimizing Chemical Precipitation in Untreated Waste Water Through Control of the Added Flocculant Quantity (Beitrag Zur Optimierung Chemischer Faellung Im Rohabwasser Durch Die Steuerung Der Faellmittelzugabemenge),
W76-10246 9-19 5D

OVERCAMP, T. J.
Drift Deposition Model for Natural-Draft Cooling Towers,
W76-04832 9-10 5B

OVERCASH, M. R.
Lysimeter Studies with Long Term Application of Swine Lagoon Effluent,
W76-11055 9-20 5B

Overland Flow Pretreatment of Wastewater,
W76-11775 9-22 5D

Swine Production and Waste Management: State-of-the-Art,
W76-07178 9-14 5D

Total Waste Management for a Large Swine Production Facility,
W76-07181 9-14 5D

Transformations of Swine Wastewater in Laboratory Soil Profiles,
W76-01387 9-03 5B

OVERMAN, A. R.
Effluent Irrigation of Pearl Millet,
W76-07205 9-14 5D

Effluent Irrigation of Rye and Ryegrass,
W76-12644 9-23 5D

Phosphorus Transport in a Packed Bed Reactor,
W76-11632 9-22 5D

OVERSBY, V. M.
Lead Isotopic Systematics and Ages of Archaean Acid Intrusives in the Kalgoorlie-Norseman Area, Western Australia,
W76-03642 9-08 2K

OVERSTREET, R. M.
An Estuarine Low-Temperature Fish-Kill in Mississippi, With Remarks on Restricted Necropsies,
W76-00321 9-01 5C

OVEZMURADOV, A. S.
Mechanization of Water-Raising from the Water-Accumulating Wells 'Chirle', (In Russian),
W76-03663 9-08 4B

OWEN, P. H.
Electrochemical Carbon Regeneration,
W76-00250 9-01 5D

OWEN, P. J.
Insecticide Residues in Two Turtle Species Following Treatment with DDT,
W76-08778 9-17 5C

OWEN, W. F.
Activated Bio-Filter Process,
W76-06349 9-13 5D

OWENS, D.
Stratified Bed Cation Exchanger Cuts Refinery Water-Treatment Costs,
W76-04059 9-09 5D

OWENS, J. W.
Determination of Uranium in Natural Waters by Neutron Activation Analysis,
W76-11398 9-21 5A

Water Quality in Vicinity of Fenton Hill Site, 1974,
W76-06909 9-14 5B

OWENS, M.
Observations on the Performance of Polishing Lagoons at a Large Regional Works,
W76-00268 9-01 5D

OWENS, R. W.
Pilot-Scale, High-Rate Biological Denitrification,
W76-00238 9-01 5D

OWENS, S. R.
Corrosion in Disposal Wells,
W76-05125 9-11 5E

OWENS, T. G.
Nutrient Transports Through Lancaster Sound in Relation to the Arctic Ocean's Reactive Silicate Budget and the Outflow of Bering Strait Waters.
W76-10717 9-20 5B

OWENS, T. R.
Some Physical and Economic Aspects of Water Pollution Control for Cattle Feedlot Runoff,
W76-01034 9-03 5E

OWICKI, J. C.
Structure of Liquid Water. III. Thermodynamic Properties of Liquid Deuterium Oxide,
W76-02505 9-06 1A

OXMAN, B. H.
Issues to be Resolved in the Second Substantive Session of the Third United Nations Conference on the Law of the Sea,
W76-07807 9-15 6E

The Third United Nations Conference of the Law of the Sea: The 1974 Caracas Session,
W76-00932 9-02 6E

OZAKI, H.
Effect of the Operational Temperature in Reverse Osmosis Method (Gyaku shinto ho ni okeru sosa ondo no eikyo),
W76-05592 9-12 5D

Effects of Enriched Diet with Iron in Culture of Yellow-Tail, (In Japanese),
W76-11573 9-21 5C

OZAKI, H. Y.
Water Repellent Soil Mulch for Reducing Fertilizer Nutrient Leaching: II. Variables Governing the Effectiveness of a Siliconate Spray,
W76-00719 9-02 3C

OZGA-ZIELINSKA, M.
The Simplified Integral Mathematical Model on a Small Low-Land Catchment,
W76-12831 9-24 2A

OZIRANSKY,
Use of Investment Models and Choice of Alternative Decisions for the Optimum Distribution of Water Resources at the Stage of Planning by Means of Computers,
W76-12561 9-23 6A

OZMENT, A. D.
Development and Testing of a Laser Rain Gage,
W76-02752 9-06 2B

OZOLINS, G.
Some International Activities in Environmenta Monitoring,
W76-10644 9-20 5A

OZORAY, G.
The First Hydrological Application of a Spac Photograph, Tamil Nadu, India, 1967,
W76-00486 9-01 7E

PABST, M. E.
Water-Level Changes in Southwestern Kansas 1940-75,
W76-12297 9-23 4I

Water Resources of Gove, Logan, and Wallac Counties, West-Central Kansas,
W76-00093 9-01 7C

PABST, R. W.
The Economic Zone,
W76-07832 9-15 6I

Fisheries,
W76-07835 9-15 6I

Islands and Archipelagoes,
W76-07838 9-15 6I

PABST, T. W.
Conclusion,
W76-07842 9-15 6I

PACAUD, J.
Sewage Treatment Apparatus,
W76-06481 9-13 5I

PACCIONE, J. D.
Heat Treatment of Waste Sludges,
W76-02597 9-06 5I

PACHAIYAPPAN, V.
Pollution from Tanning Industry,
W76-00123 9-01 5I

PACKER, M.
Anaerobic Processes, (Literature Review),
W76-12673 9-23 5I

PADDOCK, R. A.
Analysis of Three Years of Complete-Fiel Temperature Data From Different Sites o Heated Surface Discharges into Lak Michigan,
W76-02683 9-06 5I

Field Studies of the Thermal Plume from the D C. Cook Submerged Discharge with Com parisons to Hydraulic-Model Results,
W76-06673 9-13 5I

PADOVA, R.
Potential of Radiation Sterilization in Soli Waste Treatment, A Status Report,
W76-09555 9-18 5I

PAFLAI, A. G.
Interrelation Between Weight and Linear In dices in Black Sea Oysters, (In Russian),
W76-09087 9-17 2

PAGAN, A. R.
Effect of Valley Shape on Retention Basin Pe formance,
W76-01773 9-04 4A

Half-Section Pipe Used Effectively,
W76-08237 9-16 8I

Rational Formula Needs Change and Uniform ty in Practical Application,
W76-00775 9-02 4A

AGANI, G.
Sea Water Desalination Apparatus,
W76-13136 9-24 3A

AGE, A. L.
Nitrogen and Phosphorus Levels in Soils Beneath Sewage Disposal Ponds,
W76-09197 9-17 5A

Trace Element Concentrations of Sewage Treatment Plant Effluents and Sludges; Their Interactions with Soils and Uptake by Plants,
W76-06332 9-13 5B

Yield and Heavy Metal Content of Food Crops Grown on Soils Amended with Sewage Sludge,
W76-11610 9-21 5D

AGE, C. G.
The Economics of Converting Natural Gas-Powered Irrigation Pumps to Alternate Energy Sources in Southeastern Arizona,
W76-06588 9-13 3F

AGE, D. F.
Application of Radar Techniques to Ice and Snow Studies,
W76-05385 9-11 7B

AGE, J. C.
Apparatus for the Treatment of Liquid Wastes,
W76-05967 9-12 5D

AGE, N. R.
The Influence of Soils and Plant Cover on the Retention and Utilization of Suspended and Dissolved Materials in the Waste Water of a Poultry Processing Plant,
W76-08287 9-16 5D

AGE, R. A.
Evaluation of Seismicity and Earthquake Shaking at Offshore Sites,
W76-09379 9-17 5G

AGE, R. W.
Ground-Water Reconnaissance in the Fresno Northeast Area, Fresno County, California,
W76-02493 9-05 4B

AGEN, C. A.
Engineering Properties of Compacted Clay Conditioned by Saturation and Freeze-Thaw Cycles,
W76-12453 9-23 2C

AGGI, J. C.
First Studies on the Zooplankton of the Lotic Waters of the Middle Parana River Basin, (In Spanish),
W76-12382 9-23 5C

AICHA, V. P.
Some Causes of Anomalies in Oxygen Mass Transfer in Polluted Water, (In Russian),
W76-12265 9-23 5D

AIK, I. K.
The Integrated Multi-Media Pollution Model,
W76-01013 9-03 5G

AILY, P. P.
Effects of Large Thermal Discharges on Ice-Covered Rivers,
W76-03139 9-07 5C

Numerical Prediction of Thermal-Regime of Rivers,
W76-08739 9-16 5B

Thermal Response of Heated Streams, Solution by the Implicit Method,
W76-12685 9-24 5B

Winter-Regime Thermal Response of Heated Streams,
W76-04673 9-10 5B

PAINE, M. D.
Feedlot Odor,
W76-00467 9-01 5D

Legal Aspects of Odor and Dust from Feedlots,
W76-11054 9-20 5G

PAINTAL, A. S.
Hydraulic Jump in Circular Sewers,
W76-10686 9-20 5D

Interceptor Sewer Cost Analysis,
W76-03194 9-07 6C

PAINTER, J. A. C.
Biogeochemical Exploration for Tungsten at Barrytown, New Zealand,
W76-02893 9-06 5A

PAITCHELL, H.
Safeguard Fluid-Handling Equipment with Pipeline Basket Strainers,
W76-08235 9-16 8G

PAJOUHI, K.
Covariance Functions and Spectra of a Random Wave Field,
W76-06931 9-14 2L

Statistics of Random Wave Field,
W76-06397 9-13 8B

PAK, H.
Distribution of Suspended Particles in the Equatorial Pacific Ocean,
W76-03892 9-08 2L

Particle Size Distributions in a Region of Coastal Upwelling Analyzed by Characteristic Vectors,
W76-02697 9-06 5B

PAKALNS, P.
Effect of Surfactants on the Spectrophotometric Determination of Phosphate by Direct and Extraction Procedures,
W76-10027 9-19 5A

PAKULO, A. G.
The Role of Water and Food in the Uptake of Cs137 by Fish Organisms,
W76-06878 9-14 5C

PAL, D.
Coanda Effect Oil-Water Separator,
W76-08209 9-16 5G

The Coanda Effect Oil/Water Separator: A Development Study,
W76-09890 9-18 5G

PAL, N.
Nonlinear Earthquake Response of Concrete Gravity Dams,
W76-08426 9-16 8F

PALCIAUSKAS, V. V.
Solution Chemistry, Mass Transfer, and the Approach to Chemical Equilibrium in Porous Carbonate Rocks and Sediments,
W76-06384 9-13 2K

PALESH, C. M.
Application of Gas Chromatography of Volatile Metal Chelates to Water Analysis,
W76-00105 9-01 5A

PALIN, A. T.
Current DPD Methods for the Determination of Residual Halogen Compounds and Ozone in Water (Aktualne Metody DPD DLA Zwyazkow Chloroweow I Ozonu Pozostalych w wodzie),
W76-03693 9-08 5A

PALLAS, J. E. JR.
Organic Acid Changes in the Epidermis of Vicia Faba and Their Implication in Stomatal Movement,
W76-01107 9-03 2I

PALLAS, P.
Computation of Economic Data Concerning the Exploitation of Groundwater on a Regional Scale,
W76-00819 9-02 4B

PALMA, R. J. SR.
Direct Spectropolarimetric Determination of Molybdenum (VI) With D-(-)-1,2-Propylene Diamine- Tetraacetic Acid,
W76-02883 9-06 5A

PALMEDO, P. F.
Coupled Energy System-Economic Models,
W76-09605 9-18 6A

PALMER, G. G.
Flow Forecasting for the Bull Run Watershed,
W76-03109 9-07 4D

PALMER, H. D.
Transport of Chlorinated Hydrocarbons in Sediments of the Upper Chesapeake Bay,
W76-10607 9-20 5B

PALMER, J. G.
Caernarfon Sludge Goes Up in Smoke,
W76-06291 9-13 5E

PALMER, J. H. L.
Groyne Stabilization of Slope Movements and Toe Erosion, Lake Huron Near Bayfield, Ontario,
W76-11290 9-21 8B

PALMER, R. N.
Non-Point Pollution in the Potomac River Basin,
W76-07820 9-15 5B

PALMER, R. R.
Biological Survey of the Savannah River in the Vicinity of the Savannah River Project. Part I - Report on the Work Done and Tentative Conclusions on the Summer Survey,
W76-10041 9-19 5C

PALMER, W. C.
Drought and Agriculture,
W76-06265 9-13 2B

PALMER, W. F.
Developments in Trench-Type Tunnel Construction,
W76-01337 9-03 8A

PALMIERI, G.
The Disposal of Wastes into the Sea of the Province of Rome (Italy), (In Italian),
W76-12570 9-23 5E

PALMLUND, I.
The Environmental Information System (EIS) in Sweden and Monitoring of the Environment,
W76-11241 9-21 5A

PALMQUIST, R. C.
Limitations of the Electrical Resistivity Method in Landfill Investigations,
W76-01268 9-03 5B

PALMQUIST, R. C.

Preferred Position Model and Subsurface Symmetry of Valleys,
W76-02410 9-05 2A

PALOMINO, G. E.
Environmental Costs for the Navajo Generating Station,
W76-00761 9-02 5D

PALTA, J. P.
Effect of An Asphalt Barrier on Water Storage and Drought Probability,
W76-02872 9-06 3B

PALUSI, G.
Preliminary Note on the Observation of Terrigenous Drifts into the Sea, Obtained by Means of Televised Pictures Transmitted by Artificial Satellites, (In French),
W76-07992 9-15 5B

PAN'KOV, E. A.
Decontamination of Wastewaters at the Stage of Potassium Arabonate in the Production of Vitamin B2, (In Russian),
W76-08578 9-16 5D

PAN'KOVA, I. M.
Productivity and Biochemical Composition of Chlorella at Different Levels of Illumination and Nitrogen Limitation,
W76-05640 9-12 5C

PANAGIOTAKOPOULOS, D.
A Multi-Objective Framework for Environmental Management Using Goal Programming,
W76-08072 9-15 6G

A Multi-Objective Framework for Environmental Management Using Goal Programming,
W76-10582 9-20 6A

An Optimization Model for Balancing Economic-Environmental Systems,
W76-01002 9-03 5G

PANAGIOTOU, A. J.
Study on the Removal of Aromatic Hydrocarbons from Industrial Wastewaters by Means of Activated Carbon (Studio per la rimozione di idrocarburi aromatici da acqua di scarico industriali tramite carboni attivi),
W76-07758 9-15 5D

PANAHANDEH, H.
An Advanced Seeding Process in Saline Water Conversion,
W76-02540 9-06 3A

PANARIN, A. P.
Accumulation of Cs137 by Industrial Fish Species in the Casplan Sea,
W76-06891 9-14 5C

PANDIAN, T. J.
Effect of Running Water on the Predatory Efficiency of the Larvivorous Fish Cambusia Affinis,
W76-06021 9-12 2I

PANI, B. S.
Swirling Circular Turbulent Wall Jets,
W76-12828 9-24 8B

PANKOW, J. F.
Determination, Storage, and Preservation of Low Molecular Weight Hydrocarbon Gases in Aqueous Solution,
W76-09834 9-18 2K

PANNU, A. S.
Factors Affecting Respiratory Quotient--Application to Pure Oxygen Systems,
W76-05078 9-11 5D

PANSWAD, T.
Ion Exchange Removal of Inorganic and Organic Wastewater Constituents,
W76-12624 9-23 5D

PANTALEO, P.
A Primer on the Boundary Waters Treaty and the International Joint Commission,
W76-01400 9-03 6E

PANZER, H. P.
Cationic Acrylamide-Styrene Copolymers and Flocculation of Sewage Therewith,
W76-09434 9-18 5D

Process for Treating Sewage Sludge,
W76-00567 9-02 5D

PAPACOSTA, C. G.
Port Collection and Separation Facilities for Oily Wastes. Vol. 5. A Comparative Analysis of Conceptual System Plans for the Surveyed Ports Under the 'No Discharge', '1969 Amendments' and 'No Sheen' Criteria,
W76-05830 9-12 5D

PAPACOSTEA, P.
Microbiological Characterization of the Lacustrine Deposit Laid Open by Drying up of the Greaca Lake, (In Romanian),
W76-12571 9-23 2J

PAPADAKIS, J. A.
Isolation of Water Vibrios in Greece, (In French),
W76-09601 9-18 5A

PAPAZAFIRIOU, Z. G.
Linear and Nonlinear Approaches for Short-Term Runoff Estimations in Time-Invariant Open Hydrologic Systems,
W76-10699 9-20 2E

Polynomial Approximation of the Kernels of Closed Linear Hydrologic Systems,
W76-04689 9-10 2A

PAPCHENKOV, V. G.
Use of the Bulrush in Water Management, (In Russian),
W76-07449 9-14 4A

PAPENDICK, R. I.
Variation of Suspended Sediment Load in the Palouse Region of the Northwest,
W76-13012 9-24 5G

PAPI REDDY, M.
Optimum Design of Dug-Wells in Hard Rock Terrains,
W76-01892 9-04 8E

PAPISOV, V. K.
Use of Investment Models and Choice of Alternative Decisions for the Optimum Distribution of Water Resources at the Stage of Planning by Means of Computers,
W76-12561 9-23 6A

PAPKOV, G. I.
On the Applicability of the BOD Parameter to the Characterization of Coking Plant-Generated Effluents (K voprosu o priyemlemosti pokazatelva BPK dlya kharakteristiki stochnykh vod koksokhimicheskikh zavodov),
W76-07532 9-15 5D

PAPOUTSAKIS, G.
Isolation of Water Vibrios in Greece, (In French),
W76-09601 9-18 5A

PAPP, J.
Determination of Aluminum under Papermaking Conditions,
W76-11386 9-21 5A

Development of a High Seas Oil Recovery System, Phase II, Appendix I. Design Studies and Specifications,
W76-01225 9-03 5G

Development of a High Seas Oil Recovery System, Phase II, Appendix II. Materials and Component Tests,
W76-01226 9-03 5G

Development of a High Seas Oil Recovery System, Phase II, Appendix III. System Tests,
W76-01227 9-03 5G

PAQUET, V.
Water Treatment Plant, City of Quebec, Canada,
W76-00205 9-01 5F

PAQUETTE, D. R.
Ozone Disinfection Pilot Plant Studies at Laconia, New Hampshire,
W76-03688 9-08 5F

PARADIS, G.
The Impact of Salt Manufacturing on Mangrove Vegetation and the Geomorphology in Lower-Dahomey, (In French),
W76-05113 9-11 4C

PARAMASIVAM, R.
Shallow Depth Sedimentation-A Rational Approach to Water and Wastewater Clarification,
W76-00263 9-01 5D

PARAMESWARAN, V. R.
Brittle Fracture of Ice at 77 K,
W76-05673 9-12 2C

PARANJAPE, M. A.
Sedimentation of Organic Matter in St. Margaret's Bay, Nova Scotia,
W76-01311 9-03 2L

PARCHEVAKAYA, D. S.
Influence of Salinity and Concentration of Sr and Ca in Water on the Sr90 Accumulation by Cystoseira,
W76-06903 9-14 5C

PARDO, A.
Future Prospects for Law of the Sea: Comments on Caracas and Predictions for the Future,
W76-07347 9-14 6E

PARDUE, G. B.
Production Response of the Bluegill Sunfish, Lepomis Macrochirus Rafinesque, to Added Attachment Surface for Fish-Food Organisms,
W76-10522 9-20 2I

PAREJKO, R.
Chlorohydrocarbons in Lake Superior Lake Trout (Salvelinus Namaycush),
W76-04913 9-10 5C

PAREN, J. G.
The Dielectric Properties of Antarctic Ice,
W76-05374 9-11 2C

The Electrical Properties of Snow and Ice,
W76-05373 9-11 2C

ternal Reflections in Polar Ice Sheets,
76-05681 9-12 2C

RIEL, J. M.
ethod and Apparatus for Incinerating Pol-ted Liquids and Mud,
76-00846 9-02 5E

RINA, O. V.
arp Triethyl Chloride Absorption from Water; s Distribution in Organs and Tissues, (In Rus-an),
76-07264 9-14 5C

ffect of Triethyltin Chloride on the Incorpora-on of Inorganic Carbon (NaHC14O3) from the nvironment into Carp Metabolic Processes, n Russsian),
76-11732 9-22 5C

RIS, D. F.
ynamic Behavior of Vinyl Chloride in Aquatic cosystems,
76-07247 9-14 5C

RIS, J. F.
esults of Soil Moisture Flights During April 974,
76-13178 9-24 2G

RISI, V.
ffect of Entrainment in Power Station Cooling ystems Studied Using Periphytic Communi-ies,
76-09498 9-18 5C

RK, C. C.
The Relationship of Slope and Stream Channel orm in the River Dart, Devon,
76-10698 9-20 2E

RK, D.
On the Use of Litter Bag Method for Studying egradation in Aquatic Habitats,
76-08041 9-15 7B

RK, M. J.
An Observation of Water Quality and Red Water in Still Water Fish Ponds, (In Korean),
76-09799 9-18 5C

RK, R. A.
Documentation of Selected Constructs and Parameter Values in the Aquatic Model Cleaner,
76-12519 9-23 5C

Lake George Site Synthesis, 1974-1975.
76-12937 9-24 5C

Microdynamics of Detritus Formation and Decomposition and its Role as a Stabilization Influence in Freshwater Lakes,
76-05459 9-11 5C

RKER, A. B.
Waters: Numberless Yet Meager,
76-12040 9-22 6E

RKER, B. C.
The Effects of Temperature Upon the Toxicity of Chemicals to Aquatic Organisms,
76-03413 9-07 5C

Laboratory Comparisons of Four Surface Microlayer Samplers,
76-12397 9-23 2K

Microbiological and Chemical Enrichment of Freshwater-Surface Microlayers Relative to the Bulk-Subsurface Water,
76-06124 9-12 5C

Research on the Marine Food Chain.
W76-08935 9-17 5C

Temperature Influence on Chemical Toxicity to Aquatic Organisms,
W76-08934 9-17 5C

PARKER, B. L.
Chronic Oil Contamination and Aquatic Organisms with Emphasis on Diptera: Status and Bibliography,
W76-11709 9-22 5C

PARKER, C. E.
A Volumetric Temperature/Salinity Census for the Middle Atlantic Bight,
W76-12990 9-24 2L

PARKER, C. L.
Estimating the Cost of Waste Water Treatment Ponds,
W76-04788 9-10 5D

Fluoride Removal: Technology and Cost Estimates,
W76-08703 9-16 5D

PARKER, D. S.
Design of Integrated Approach to Nutrient Removal,
W76-12635 9-23 5D

Lime Recovery and Reuse in Primary Treatment,
W76-05785 9-12 5D

Lime Use in Wastewater Treatment: Design and Cost Data,
W76-05868 9-12 5D

Sewage Treatment Process,
W76-09422 9-18 5D

Upgrading Lagoon Effluent for Best Practicable Treatment,
W76-00240 9-01 5D

PARKER, F. L.
Evaluation of Mathematical Models for Temperature Prediction in Deep Reservoirs,
W76-02270 9-05 5B

PARKER, G.
Meandering of Supraglacial Melt Streams,
W76-01261 9-03 2E

Modeling of Meandering and Braiding in Rivers,
W76-09974 9-18 2J

PARKER, J. C.
Effect of Aerially-Applied Malathion on Juvenile Brown and White Shrimp Penaeus Aztecus and P. Setiferus,
W76-03767 9-08 5C

An Experimental Oil Spill: The Distribution of Aromatic Hydrocarbons in the Water, Sediment, and Animal Tissues Within a Shrimp Pond,
W76-00149 9-01 5C

PARKER, J. G.
Incidence of Polychlorinated Biphenyls in Clyde Seaweed,
W76-11810 9-22 5C

PARKER, J. I.
Distribution of Amorphous, Diatom Frustule, and Dissolved Silica in a Lead-210 Dated Core from Southern Lake Michigan,
W76-05883 9-12 5C

Distribution of Diatom Frustules in Lake Michigan Sediment Cores,
W76-05882 9-12 5C

Role of Copepod Fecal Pellets in the Vertical Transport of Freshwater Diatoms,
W76-05880 9-12 5C

Vertical Transport of Particulate Material in Lake Michigan by the Lorica of Codonella Cratera,
W76-05881 9-12 5C

PARKER-JONES, H. A.
Research on Ultrafiltration Systems Under Seawater Desalting Conditions,
W76-08117 9-16 3A

PARKER, M.
Similarities Between the Uptake of Nutrients and Ingestion of Prey,
W76-06723 9-13 5C

PARKER, P. L.
Analyses of Hydrocarbons in Marine Organisms: Results of Idoe Intercalibration Exercises,
W76-10398 9-19 5A

Analysis of Hydrocarbons in Marine Organisms: Results of IDOE Intercalibration Exercises,
W76-01901 9-04 5A

PARKER, R.
Fertilizer Application Rates and Nitrate Concentrations in Illinois Surface Waters,
W76-00290 9-01 5B

PARKER, R. A.
Empirical Functions Relating Metabolic Processes in Aquatic Systems to Environmental Variables,
W76-06755 9-13 5C

PARKER, R. L.
Lysimeter Studies with Long Term Application of Swine Lagoon Effluent,
W76-11055 9-20 5B

PARKER, W. J.
Review of Standards and Other Information on Thermoplastic Piping in Residential Plumbing,
W76-11603 9-21 8G

PARKES, J. G. M.
User Response to Water Quality and Water-based Recreation in the Qu'Appelle Valley, Saskatchewan,
W76-01353 9-03 5G

PARKHOMCHUK, T. K.
Hygenic Evaluation of Ionic Composition of an Imitation of Desalinated Sea Water, (In Russian)
W76-11529 9-21 5C

PARKHURST, B. R.
An Ecological Evaluation of a Thermal Discharge. Part V: The Distribution and Growth of the Fish Populations Along the Western Shore of Lake Erie at Monroe, Michigan During 1970,
W76-04575 9-10 5C

PARKHURST, D. L.
MIX2: A Computer Program for Modeling Chemical Reactions in Natural Waters,
W76-08062 9-15 7C

PARKS, G. A.
Oxidation of Cinnabar by FE (III) in Acid Mine Waters,
W76-01099 9-03 2K

PARKS, J. M.
Bulk Density-Water Content Relationship in Marine Silts and Clays,
W76-11771 9-22 2L

PARKS, J. W.
An Evaluation of Three Combined Sewer Overflow Treatment Alternatives,
W76-00242 9-01 5D

PARKS, W. S. JR.
Multivariate Analysis of Georgia Coastal Plain Groundwaters,
W76-12466 9-23 2F

PARLANGE, J-Y.
Capillary Hysteresis and the Relationship Between Drying and Wetting Curves,
W76-10914 9-20 2G

Determination of Soil-Water Diffusivity for Anisotropic Stratified Soils,
W76-07767 9-15 2G

Linear Dispersion in Finite Columns,
W76-02921 9-06 2G

A Note on the Moisture Diffusivity of Saturated Swelling Systems from Desorption Experiments,
W76-01852 9-04 2G

Solute Dispersion in Saturated Soil Columns,
W76-12986 9-24 5B

PARMELE, L. H.
Estimating Evapotranspiration Under Non-homogeneous Field Conditions,
W76-01707 9-04 2D

PARMERTER, R. R.
A Model of Simple Rafting in Sea Ice,
W76-02708 9-06 2C

PARR, J. F.
An Automatic Pumping Sampler for Evaluating the Transport of Pesticides in Suspended Sediment,
W76-00728 9-02 5B

Degradation of DDT in an Everglades Muck as Affected by Lime, Ferrous Iron and Anaerobiosis,
W76-12254 9-23 5B

PARR, O. D.
Residue-Removal Methods for Pesticides and Industrial Chemicals Found in Aquatic Environments,
W76-05249 9-11 5A

PARRISH, A. R. JR.
Public Beach Access: Guaranteeing a Place to Spread Your Towel,
W76-12053 9-22 6E

PARRISH, P. R.
Aroclor 1016: Toxicity to and Uptake by Estuarine Animals,
W76-10340 9-19 5C

PARSLOW, J. L. F.
Mercury in Waders from the Wash,
W76-12176 9-23 5A

Seabird Mortality in the North Irish Sea and Firth of Clyde Early in 1974,
W76-11727 9-22 5C

PARSONS, D. A.
Discharge Equations for HS, H, and HL Flumes,
W76-05918 9-12 8B

PARSONS, G. L.
Filtering Apparatus and Process,
W76-05546 9-12 5D

PARSONS, T. R.
Metabolic Studies on the Amphipod Anisogammarus Pugettensis in Relation to its Trophic Position in the Food Web of Young Salmonids,
W76-12763 9-24 5C

PARSONS, W. A.
The Rationale of Zero Discharge,
W76-05315 9-11 5D

PARTHASARATHY, B.
Trend Analysis of Annual Indian Rainfall,
W76-05691 9-12 2B

PARTHENIADES, E.
An Investigation of the Depositional Properties of Flocculated fine Sediments,
W76-04684 9-10 2J

PARTRIDGE, H. D.
Sequential Chlorination -- Impact on the Environment,
W76-10860 9-20 5D

PARTRIDGE, L.
Appendices to: Survey Study to Select a Limited Number of Hazardous Materials to Define Amelioration Requirements,
W76-01902 9-04 5A

PARULEKAR, A. H.
Oil Pollution Along the Indian Coastline,
W76-10386 9-19 5B

PARUNGO, F. P.
Formation of Cloud and Ice Nuclei by the Combustion of Crude Oil,
W76-01857 9-04 2B

PARVULESCU, C.
Optimization of Water Resources Development Projects in Case of Inadequate Hydrologic Data,
W76-11971 9-22 6A

Use of Optimization Models for Water Resources Allocation and Choice of Investments by Means of Computers,
W76-12558 9-23 6A

PARZYCK, D. C.
Bioaccumulation Factors for Radionuclides in Freshwater Biota,
W76-04846 9-10 5C

PASCALE, C. A.
Construction and Testing of Two Waste-Injection Monitor Wells in Northwest Florida,
W76-11070 9-20 5B

Flood-Prone Areas of Gadsden County, Florida,
W76-06443 9-13 7C

Water Resources of Walton County, Florida,
W76-09149 9-17 4A

PASCARELLA, G.
Process for the Purification of Waste Waters,
W76-11223 9-21 5D

PASKAUSKY, D. F.
Movement of Surface Drifters in the American Mediterranean,
W76-00907 9-02 2L

PASKELL, S. L.
New Methods Under Investigation for th Utilization of Fish Solubles, A Fisher Byproduct, as a Means of Pollution Abatement
W76-04736 9-10 5C

PASKETT, C. J.
Sediment Yield of Selected Watersheds We of the Great Plains,
W76-02971 9-06 2

PASSINO, R.
Selective Renovation of Eutrophic Waste Phosphate Removal,
W76-10026 9-19 5I

PASTUSEK, M. J.
Drip Irrigation Tap and System,
W76-03514 9-08 3I

PASZNER, L.
Potentiometric Titration Behavior of Sodiun Sulfide, Methyl Mercaptan, Dimethyl Sulfide Dimethyl Disulfide and Polysulfides in Mixe Alkaline Solutions and Sulfate Pulping Blac Liquors,
W76-01670 9-04 5A

PASZTO, P.
Recent Trends in Water Quality Managemen and Protection in Hungary,
W76-05518 9-12 5C

PASZYC, A. J.
Coanda Effect Oil-Water Separator,
W76-08209 9-16 5C

PATE, F. M.
Disposal of Cattle Feedlot Waste in an Anaerobic Lagoon on the Organic Soils of South Florida--Preliminary Results,
W76-10540 9-20 5E

PATEL, B.
Impact of Thermal and Radioactive Effluents on a Tropical Nearshore Ecosystem,
W76-09492 9-18 5C

PATEL, B. R.
Effect of Low Moisture Level on Catalase Activity in Some Crop Plants During Juvenile Phase,
W76-10178 9-19 2I

PATEL, G. G.
Salt Water Intrusion into Porous Media,
W76-00614 9-02 2L

PATEL, H. C.
Effect of Low Moisture Level on Catalase Activity in Some Crop Plants During Juvenile Phase,
W76-10178 9-19 2I

PATEL, J. A.
Effect of Low Moisture Level on Catalase Activity in Some Crop Plants During Juvenile Phase,
W76-10178 9-19 2I

PATEL, R. M.
A Guide to the Selection of Cost-Effective Wastewater Treatment Systems,
W76-09772 9-18 5D

PATEL, S.
Impact of Thermal and Radioactive Effluents on a Tropical Nearshore Ecosystem,
W76-09492 9-18 5C

EL, V. C.
ptimum Design of Dry-Wet Combination ooling Towers for Power Plants,
/76-04805 9-10 5B

urface Roughness Effects on the Mean Flow ast Circular Cylinders,
/76-02402 9-05 8B

he Water and Total Optimizations of Wet and ry-Wet Cooling Towers for Electric Power lants,
/76-07674 9-15 3E

TERSON, C. G.
easonal Dynamics and Productivity of Tanyarsus Barbitarsis Freeman Diptera:Chironomidae) in the Benthos of a hallow, Saline Lake,
/76-06142 9-12 5C

TERSON, W. S. B.
he Application of Ice Physics to Glacier Stuies,
/76-01250 9-03 2C

THAK, B. N.
Defluoridation of Water by Nalgonda Technique,
/76-01543 9-04 5F

THAK, D. N.
nfluence of Surface Active Agents on Movenent of Water in Soil,
/76-05154 9-11 2G

TIL, S. G.
Hydrogen Peroxide as a Source of Oxygen Supply in the Transport of Fish Fry,
/76-01931 9-04 5G

TIN, S. A.
Artificial Radioactivity of Sea Water and Food Hydrobionts of the World Ocean,
/76-06887 9-14 5B

The Effect of Some Metals on Primary Production in the Coastal Water of the Caspian Sea, (In Russian),
/76-07313 9-14 5C

TKI, P. V.
Treatment and Disposal of Wastewater from Onion Dehydration Factory at Satpur, Nasik,
/76-07533 9-15 5D

TNAIK, S.
Observations on the Seasonal Fluctuations of Plankton in the Chilka Lake,
/76-06118 9-12 2H

TNI, N. K.
Nutrient Transformations in a Swine Waste Oxidation Ditch,
/76-00429 9-01 5D

A Study of a Full-Scale Swine Waste Disposal System,
/76-04425 9-09 5D

TRA, H. P.
Electromagnetic Depth Sounding for Ground Water Exploration in Resistive Formations,
/76-00398 9-01 4B

TRIC, J. H.
Forest Management and Nutrient Cycling in Eastern Hardwoods,
/76-07025 9-14 4C

Shifting Land use and the Effects on River Flow in Massachusetts,
/76-04976 9-10 4C

Timber Harvest as an Agent of Forest Stream Channel Modification,
W76-07017 9-14 4C

PATRICK, F. M.
Passage of Metals in Effluents, Through Bacteria to Higher Organisms,
W76-08449 9-16 5B

PATRICK, G. W.
California High Water, 1972-1973,
W76-01315 9-03 2E

California High Water, 1973-1974,
W76-01482 9-03 2E

PATRICK, J. M. JR.
Mirex Residues in Selected Estuaries of South Carolina: June 1972,
W76-05954 9-12 5A

PATRICK, R.
Biological Survey of the Savannah River in the Vicinity of the Savannah River Project. Part I - Report on the Work Done and Tentative Conclusions on the Summer Survey,
W76-10041 9-19 5C

Effects of Abnormal Temperatures on Algal Communities,
W76-03485 9-07 5C

PATRIE, B. A.
Water Pollution Control Problems and Programs of the Maine Sardine Council,
W76-04739 9-10 5D

PATRIQUIN, D. G.
'Migration' of Blowouts in Seagrass Beds at Barbados and Carriacou, West Indies, and Its Ecological and Geological Implications,
W76-00329 9-01 5C

PATT, R. O.
Characterization of Nitrogen Sources Contaminating Shallow Ground Water in an Arid Basin. Las Vegas Area, Nevada,
W76-09762 9-18 5B

PATTEN, B. C.
Nutrient Recycling and the Stability of Ecosystems,
W76-10267 9-19 5C

A Reservoir Cove Ecosystem Model,
W76-08830 9-17 5C

PATTEN, B. G.
Interagency Investigations of a Persistent Oil Spill on the Washington Coast. Animal Population Studies, Hydrocarbon Uptake by Marine Organisms, and Algae Response Following the Grounding of the Troopship General M.C. Meigs,
W76-09324 9-17 5C

PATTEN, D. G.
Long-Term Chemical and Biological Effects of a Persistent Oil Spill Following the Grounding of the General M. C. Meigs,
W76-00139 9-01 5C

PATTEN, D. T.
Conversion of Chaparral to Grass in Central Arizona: Effects on Selected Ions in Watershed Runoff,
W76-02527 9-06 5B

Productivity and Flowering of Winter Ephemerals in Relation to Sonoran Desert Shrubs,
W76-02526 9-06 2I

PATTEN, E. P. JR.
Analog Model Study of the Hydrology of the San Luis Valley, South-Central Colorado,
W76-03403 9-07 4B

PATTEN, R. T.
A Watershed Volume Response Model Considering Contributing Area,
W76-02523 9-06 2A

PATTERN, R. T.
Strip Mining and Reclamation on the Black Mesa of Arizona,
W76-02670 9-06 5G

PATTERSON, D. T.
Nutrient Return in the Stemflow and Throughfall of Individual Trees in the Piedmont Deciduous Forest,
W76-10326 9-19 5B

PATTERSON, J. L.
Hurricane Agnes Rainfall and Floods, June-July 1972,
W76-03397 9-07 2E

PATTERSON, J. W.
Mercury in Laundry Wastewaters,
W76-11602 9-21 5D

Steel Industry Wastes, (Literature Review),
W76-05094 9-11 5D

PATTERSON, R. L.
Water Quality and Economic Criteria for Rural Wastewater and Water Supply Systems,
W76-10583 9-20 5D

PATTON, C.
An Outbreak of Shigella Sonnei Gastroenteritis on Colorado River Raft Trips,
W76-07691 9-15 5C

PATTON, V. D.
What Do We Do About the Water Pollution Control Act,
W76-13037 9-24 5G

PATUREAU, J. P.
Oil in the Arctic,
W76-09902 9-18 5C

PAUDRAT, A.
Electrolytic Purification of Trade Effluents Containing Toxic Materials,
W76-08709 9-16 5D

PAUL, A. K.
Effect of Late Sowing on Morphogenetic Development of Panicle in Rice (Oryza Sativa L.),
W76-08758 9-17 3F

PAUL, H. A.
Hydrogeology of a Portion of the Sand Hills and Ogallala Aquifer, South Dakota and Nebraska,
W76-01299 9-03 2F

PAUL, J. F.
A Numerical Model for Thermal Plumes and River Discharges,
W76-11310 9-21 5B

PAUL, P. E.
Activated Sludge Process with Alum Addition and Heat Treatment,
W76-09456 9-18 5D

Odor Control with Hydrogen Peroxide,
W76-12932 9-24 5D

PAULEKAT, F.
Cathodic Inner and Outer Protection for a Double Syphon for Waste Water (Kathodischer Innen-und Aussenschutz Fuer Einen Abwasser-Doppelduecker),
W76-05584 9-12 5D

PAULHUS, J. L. H.
Hurricane Agnes Rainfall and Floods, June-July 1972,
W76-03397 9-07 2E

Hydrology for Engineers, Second Edition,
W76-09661 9-18 8B

PAULI, B.
Experiences with the Operation of Step Swing Grates, and plans for the Combined Incineration of Domestic Refuse and Sewage Sludge (Bisherige Betriebserfahrungen Mit Stuffenschwenkrosten und Planungen fuer Kombinierte Verbrennung von Muell und Klaerschlamm),
W76-04079 9-09 5D

PAULS, C. F.
Wastewater Treatment Evaluation, Mather Air Force Base, California,
W76-05801 9-12 5D

Wastewater Treatment Evaluation, Mt. Hebo Air Force Station, Oregon,
W76-05802 9-12 5D

PAULSEN, D. J.
Commercial Feedlots-Nuisance, Zoning and Regulation,
W76-00449 9-01 5G

PAULSEN, G. W.
Interactions of Mercury with Aquatic and Edaphic Environments,
W76-05601 9-12 5B

PAULSON, R. E.
Portable Water Sampling Apparatus,
W76-05958 9-12 7B

PAULSON, W. H.
Nutrient Losses in Surface Runoff From Winter Spread Manure,
W76-12993 9-24 5B

PAULSON, W. L.
Oxidation Ditch Treatment of Meat Packing Wastes,
W76-08223 9-16 5D

PAUSE, R. W.
An Improved Determination of Chemical Oxygen Demand in Water and Wastes by a Simplified Acid Dichromate Digestion,
W76-09203 9-17 5A

PAUTSCH, F.
Effect on Detergents and of Phospho-Gypsum on the Oxygen and Chlorophyll a Levels and on the Dry Weight of the Residue of Brackish Water Under Laboratory Conditions,
W76-01942 9-04 5C

PAVEL'EVA, E. B.
Characteristics of the Primary Production in the Salmon Breeding Lake, (In Russian),
W76-13193 9-24 5C

The Role of Microflora in the Productivity of a Salmon Breeding Lake, (In Russian),
W76-09818 9-18 5C

Vertical Distribution, Sestonic Seasonal Dynamice and the Role of Detritus in the Lake Dal'neye Ecosystem, (In Russian),
W76-12301 9-23 5C

PAVLENKO, S. M.
Hygienic Assessment of the Flotation Reagent T-66 in the Water Bodies and its Maximum Permissible Concentration (Gigienicheskaya otsenka flotoreagenta T-66 v vode vodoemov i ego predel'no dopustimaya kontsentratsiya),
W76-03255 9-07 5C

PAVLOVA, K. K.
Laboratory Instruments and Apparatus for Investigating the Thermophysical Interaction of Water with a Frozen Peat Deposit,
W76-07080 9-14 2G

Meltwater Losses Through Infiltration into Podzolic Soils and Chernozems,
W76-06181 9-13 2G

PAVLOVSKAYA, T. V.
Comparative Estimation of the Role of Detritus and Algae in Neomysis Mirabilis (Czerniavsky) Nutrition, (In Russian),
W76-13149 9-24 2I

PAVLYUK, N. D.
Removal of Oils from Waste Waters (Ochistka stochnykh vod ot masel),
W76-00124 9-01 5D

PAVONI, J. L.
The Harvesting of Algae as a Food Source from Wastewater Using Natural and Induced Flocculation Techniques,
W76-03571 9-08 5D

PAWLITA, W.
The Effect of Flocculants on Postcoagulation Sludge Dewatering (Wplyw flokulantow na odwadnialnosc osadow pokoagulacyjnych),
W76-09174 9-17 5D

PAWLOSKI, B. L.
Use of Mathematical Models in the Palo Alto Marshland Rehabilitation Project,
W76-09949 9-18 8B

PAXSON, T. E.
Closed-Loop Filtration Systems Help Midwest Sugar Beet Plant Maintain High Water Quality,
W76-04226 9-09 5D

Closed Loop Water-Systems at Red River Valley Factory,
W76-04225 9-09 5D

PAYETTE, S.
Zonation of Snow Conditions in Forest-Tundra, Hudson Bay, New Quebec, (In French),
W76-08759 9-17 2C

PAYNE, A. G.
Application of the Algal Assay Procedure in Biostimulation and Toxicity Testing,
W76-06697 9-13 5C

PAYNE, J. F.
Field Evaluation of Benzopyrene Hydroxylase Induction as a Monitor for Marine Petroleum Pollution,
W76-09116 9-17 5A

Induction of Aryl Hydrocarbon (Benzo (Alpha) Pyrene) Hydroxylase in Fish by Petroleum,
W76-00868 9-02 5C

PAYNE, J. N.
Geohydrologic Significane of Lithofacies of the Carrizo Sand of Arkansas, Louisiana, and Texas and the Meridian Sand of Mississippi,
W76-08061 9-15 2F

PAYNE, T. R.
Acute Toxicity of Selected Toxicants to Six Species of Fish,
W76-10900 9-20 5C

PEACE, R. L.
Evaluation of Airborne Raindrop Size-Distribution Measurements for Improving Radar Rainfall Estimates,
W76-06608 9-13 2B

PEACOCK, K.
A Technique for Correcting ERTS Data for Solar and Atmospheric Effects,
W76-02059 9-05 7C

PEARCE, A. S
Biological Treatment of Liquid Toxic Wastes Part 1,
W76-05283 9-11 5D

PEARCE, B. R.
Sampling Network Design for Dispersion Verification,
W76-09961 9-18 5B

PEARCE, D.
An Evaluation of Cost-Benefit Analysis Criteria,
W76-06227 9-13 6B

PEARCE, D. W.
The Economics of Pollution and its Control,
W76-04542 9-10 5G

PEARCE, S. E.
Biological Treatment of Liquid Toxic Wastes Part 1,
W76-05283 9-11 5D

PEARCY, R. W.
Comparative Photosynthetic and Respiratory Gas Exchange Characteristics of Atriplex Lentiformis (Torr.) Wats. In Coastal and Desert Habitats,
W76-02530 9-06 2D

PEARL, R. H.
Hydrological Problems Associated with Developing Geothermal Energy Systems,
W76-09260 9-17 4B

PEARMAN, A. L.
Florida Coastal Policy Study: The Impact of Offshore Oil Development,
W76-11468 9-21 6G

Introduction,
W76-11469 9-21 6G

PEARSE, A. S.
Water Management in Ontario--An Economic Evaluation of Public Policy,
W76-01969 9-04 6B

PEARSON, C. E.
Computation of Tidal Flow in Well-Mixed Estuaries,
W76-08741 9-16 2L

PEARSON, C. S.
Environmental Policy and the Ocean,
W76-07339 9-14 6E

ARSON, E.
nflux of Petroleum Hydrocarbons into the
cean,
/76-09385 9-17 5G

ARSON, F. H.
hemical Kinetics of Neutralization of Acidic
Vater by Crushed Limestone,
/76-06946 9-14 5D

imestone Barriers to Neutralize Acidic
treams,
/76-02938 9-06 5G

se of Crushed Limestone to Neutralize Acid
Vastes,
/76-08225 9-16 5G

ARSON, F. J.
he Age of Groundwater in the Chalk of the
ondon Basin,
/76-11848 9-22 2F

ARSON, F. J. JR.
eochemical and Isotopic Analyses of Waters
ssociated with the Edwards Limestone
quifer, Central Texas,
/76-09836 9-18 2K

ARSON, G. A.
ffects of Grazing on Infiltration Rates in
Vaste Water Spray Fields,
/76-03124 9-07 5D

ffects of Grazing on Infiltration Rates in
Vaste Water Spray Fields,
/76-08352 9-16 5E

ARSON, H. W.
Application of a Dynamic Network Model to
Hydraulic and Water Quality Studies of the St.
Lawrence River,
/76-10440 9-19 5B

ARSON, J. G.
ffects of Discharge from a Dredge Spoils Site
n Carroll Island, Maryland,
/76-09647 9-18 5C

A New Measure of Biotic Similarity Between
Samples and its Applications with a Cluster
Analysis Program,
/76-00325 9-01 7B

Preliminary Environmental Survey, Newport
Army Ammunition Plant, Newport, Indiana,
January, 1973,
/76-10056 9-19 5C

ARSON, M. B.
Automatic Foam Remover for Flotation Tanks,
/76-06474 9-13 5D

ARSON, T. H.
A Comparative Study of the Effects on the
Marine Environment of Wastes from Cellulose
Industries in Scotland and Sweden,
/76-11402 9-21 5C

ASE, T. E.
Statistical Design Basis for Submerged Dif-
fuser,
/76-07214 9-14 5B

AVY, P. L.
Method for Determining and Controlling Liquid
Cooling System Characteristics.
/76-06484 9-13 5G

PECAN, E. V.
An Experiment in the Eutrophication of Ter-
restrial Ecosystems with Sewage: Evidence of
Nitrification in a Late Successional Forest,
W76-03555 9-08 5C

Experimental Eutrophication of Terrestrial and
Aquatic Ecosystems. First Annual Report of
the Upland Recharge Project,
W76-01155 9-03 5D

PECAR, V.
Trace-Element Analysis Using X-Ray Emission
Spectroscopy,
W76-09697 9-18 5A

PECHAN, E. H. III
Relating Environmental Modeling to Policy Is-
sues and Decisions,
W76-11879 9-22 5G

PECHEN'-FINENKO, G. A.
Comparative Estimation of the Role of Detritus
and Algae in Neomysis Mirabilis (Czerniavsky)
Nutrition, (In Russian),
W76-13149 9-24 2I

Effect of Food Concentration on Efficiency of
its Assimilation by Planktonic Crustaceans with
Different Feeding Mechanisms, (In Russian),
W76-09092 9-17 2I

PECHENOV, V. A.
Sugar Beet Photosynthesis and Productivity
Cultivated by Irrigated Farming in the Kirgiz
SSR, (In Russian),
W76-09810 9-18 3F

PECHER, R.
The Shortest Time Sequence of Heavy Rainfall
and its Effect on Storm-Water Retention Tanks
(Die kuerzeste Zeitfolge von Starkregen und
thre Auswirkung auf Regenbecken),
W76-00798 9-02 2A

PECHLANER, R.
Restoration of a Eutrophicated Lake (Reither
Sea, Tyrol, Austria), (In German),
W76-07309 9-14 5C

PECK, A. J.
Movement of Soil and Shallow Groundwater,
W76-04133 9-09 2G

PECK, B. B.
Summary of Entrainment Research at the Mill-
stone Point Nuclear Power Station, 1970 to
1972,
W76-08632 9-16 5C

PECK, D. F.
Sewage Treatment Apparatus,
W76-03510 9-08 5D

PECK, E. L.
River System Modelling for Operational
Forecasting,
W76-12550 9-23 4A

PECK, J. V.
Research on Ultrafiltration Systems Under
Seawater Desalting Conditions,
W76-08117 9-16 3A

PECK, M. K.
Transform Approach to Solution of Ground-
water Flow Equations,
W76-08922 9-17 2F

PECK, T. R.
Nitrate Occurrence in Some Soils with and
Without Natric Horizons,
W76-00836 9-02 2G

PEDDADA, A. V.
Characterization of Usage and Wastewater in
Roadside Rest Areas,
W76-05102 9-11 5D

PEDDICORD, R.
Effects of Suspended Solids Associated with
Dredging Operations on Estuarine Organisms,
W76-03645 9-08 5C

PEDGLEY, D. E.
An Exceptional Desert Rainstorm at Kufra,
Libya,
W76-02533 9-06 2B

PEDLOSKY, J.
Finite-Amplitude Baroclinic Disturbances in
Downstream Varying Currents,
W76-09560 9-18 2L

PEDONE, V. S.
Small Boat Oil Removal System for Bilge
Water,
W76-02598 9-06 5D

PEEBLES, R. W.
On The Joint Distribution of the Largest Flood
and its Time of Occurrence,
W76-11694 9-22 2E

PEEK, H. M.
A Preliminary Report on Anomalous Pressures
in Deep Artesian Aquifers in Southeastern
North Carolina,
W76-03526 9-08 4B

PEELEN, R.
Changes in the Composition of the Plankton of
the Rivers Rhine and Meuse in the Netherlands
During the Last Fifty Five Years,
W76-09105 9-17 5C

PEELING, T. J.
A Proximate Biological Survey of Sand Diego
Bay, California,
W76-03170 9-07 5C

PEET, F. G.
Affine Transformations from Aerial Photos to
Computer Compatible Tapes,
W76-02055 9-05 7C

PEETERS, E.
Trace Metals and Pollution of the Belgian
Coast and of the Schelt Estuary, (In French),
W76-12260 9-23 5A

PEFFLEY, M. B.
A Three-Dimensional Simulation of Coastal
Upwelling Off Oregon,
W76-07775 9-15 2L

PEGG, W. J.
Physiological Effects of Sublethal Levels of
Acid Water on Fish,
W76-08927 9-17 5C

PEGRAM, G. G. S.
A Method of Finding the Family of Runhydro-
graphs for Given Return Periods,
W76-12195 9-23 2E

PEIL, K. M.
Water Pollution Sampler Evaluation,
W76-10261 9-19 5A

PEINE, J. D.
Discussion (Of, 'North Atlantic Regional Water
Resources Study,' by H. E. Schwarz, et al.),
W76-00073 9-01 6B

PEIPPO, H.
A Model for Water and Phosphorus Distribution on the Island of Goeteborg, (In Swedish),
W76-10963 9-20 5B

PEIRANO, L. E.
Low Cost Phosphorous Removal,
W76-05786 9-12 5D

PEIRCE, H. W.
Arizona's Water Supply-Some Reflections,
W76-10183 9-19 4A

PEIRCE, J. J.
Statistical Study of Phosphorus Removal in Wisconsin,
W76-07146 9-14 5A

PEJLER, B.
On Long-Term Stability of Zooplankton Composition,
W76-09600 9-18 5C

PELATI, L. T.
Radioactivity in the Mediterranean Sea, (In Italian),
W76-11558 9-21 5A

PELCYGER, R. S.
Indian Water Rights: Some Emerging Frontiers,
W76-10729 9-20 6E

PELEG, M.
The Chemistry of Ozone in the Treatment of Water,
W76-09684 9-18 5F

PELL, J.
The Chalk Point Cooling Tower Prject,
W76-04807 9-10 5B

The Chalk Point Cooling Tower Project,
W76-08861 9-17 5B

PELL, S. C.
Congress and a Law of the Sea Treaty,
W76-07346 9-14 6E

PELLEGRINI, M. G.
Presence of Insecticides in Surface Waters After Conditioning Treatment, (In Italian),
W76-13160 9-24 5F

PELLEGRINO, A. W.
Sewer Lining--The Toronto Technique,
W76-02172 9-05 8G

PELLETT, J. L.
South Dakota Weather Modification Program, Research Cooperative Studies Under Project Skywater,
W76-10819 9-20 3B

PELTIER, W. R.
Collapse of the Hudson Bay Ice Center and Glacio-Isostatic Rebound,
W76-05669 9-12 2C

PEMBERTON, G. S.
Supershrimp: Deep Bioturbation in the Strait of Canso, Nova Scotia,
W76-11584 9-21 5C

PENA, J. A.
Controlled Generation of Large Volumes of Atmospheric Clouds in a Ground-Based Environmental Chamber,
W76-02686 9-06 2B

Influence of the Choice of the Plume Diffusion Formula on the Salt-Deposition-Rate Calculation,
W76-04829 9-10 5B

PENA, J. M.
Turbulent Jets with Reversible Buoyancy,
W76-01849 9-04 5B

PENAZ, M.
Influence of Water Temperature on Incubation and Hatching in Chondrostoma Nasus (Linnaeus 1758),
W76-08053 9-15 8I

Oxygen consumption in the Brown Trout, Salmo Trutta M. Fario L,
W76-00283 9-01 2I

PENDLETON, E. C.
Heat Influences in Estuarine Ecosystems,
W76-03489 9-07 5C

PENKE, I. K.
Joint Biological Purification of Domestic and Industrial Waste Waters (Sovmestnaya biologicheskaya ochistka khozyaystvennobytovkh i proizvodstvennykh stochnykh vod),
W76-07515 9-15 5D

PENLEY, R. D.
Water-Level Records for Colorado, 1971-75,
W76-04394 9-09 7C

Water-Level Records for the San Luis Valley of Colorado, 1972-76,
W76-07129 9-14 7C

PENNAZ, J.
Use of ERTS Imagery to Assist in Snowmelt Flood Prediction,
W76-02906 9-06 2C

PENNEY, M. E.
Remote Sensing Applications in Marine Science Programs at Vims,
W76-01839 9-04 7B

PENNYCUICK, L.
Recent Cyclic Changes in Climate and in Abundance of Marine Life,
W76-12747 9-24 5C

PENOYER, P. E.
Geology and Ground Water Resources of the Kings Valley Area, Central Oregon Coast Range, Oregon,
W76-04801 9-10 4B

PENRIDGE, L.
Assessment and Eradication of Heavy Metal Pollution in a Planned Urban Environment,
W76-08795 9-17 5C

PENROSE, W. R.
Induction of Aryl Hydrocarbon (Benzo (Alpha) Pyrene) Hydroxylase in Fish by Petroleum,
W76-00868 9-02 5C

Limited Arsenic Dispersion in Sea Water, Sediments, and Biota Near a Continuous Source,
W76-01262 9-03 5C

PENTEATH, R. J.
Environmental and Public Health Consequences of the Controlled Disposal of Transuranic Elements to the Marine Environment,
W76-08604 9-16 5C

PENTZ, H.
Equipment Applications in Wastewater Treatment Clarifiers,
W76-11206 9-21 5D

Gravity Separation of Coarse Solids in Wastewater,
W76-09028 9-17 5D

PENUMALLI, B. R.
Large-Scale Estuarine Water Quality Matrix Model,
W76-10191 9-19 5B

Large Scale Systems Approach to Estuarine Water Quality Modelling with Multiple Constituents,
W76-12517 9-23 5B

Large Systems Approach to Water Quality Modelling and Management,
W76-02564 9-06 5B

PEQUEGNAT, W. E.
Pelagic Tar in the Gulf of Mexico and Caribbean Sea,
W76-10409 9-19 5B

PEQUIGNOT, J.
Effect of Copper Sulfate on Mucus Cells in Young Trout (Salmo Irideus), (In French).
W76-11545 9-21 5C

Toxic Action of Copper on the Gills of Carp (Cyprinus Carpio), (In French),
W76-08260 9-16 5C

PERAINO, J.
Concept Analysis: Offshore Breakwater-Oil Storage System,
W76-09904 9-18 8A

Features of Various Offshore Structures,
W76-09311 9-17 8A

PERCY, J. A.
Responses of Arctic Marine Crustaceans to Crude Oil and Oil-Tainted Food,
W76-09123 9-17 5C

PERE, M. J. B.
Effecto De La Temperatura De Aclimatacion Sobre La Proliferacion De Precursores Eritropoyeticos En Carassius Auratus, (The Effect of Acclimation Temperature on Proliferation of Erythropoietic Precursors in Carrassius Auratus and on the Uptake of Tritiated Thymidine in Haematopoietic and Intestinal Tissue),
W76-09509 9-18 5C

PERES, J. M.
Causes of Decrease and Disappearance of the Seagrass Posidonia Oceanica on the French Mediterranean Coast (Causes de la Rarefaction et de la Disparation des Herbiers de Posidonia Oceanica sur les Cotes Francaises de la Mediterranee),
W76-00876 9-02 5B

PEREVOZCHENKO, I. I.
DDT and its Metabolites in Some Cestodes in Fishes, (In Russian),
W76-11550 9-21 5C

PEREZ, J.
Ultrasonic Properties of Plastically Deformed Ice,
W76-05384 9-11 2C

PEREZ, J. W.
Ion and Precipitate Flotation of Metal Ions from Solution,
W76-10630 9-20 5D

REZ-MINGUEZ, A.
Contribution to the Taxonomy and Ecology of Fresh-Water Mollusks in Streams of Central Spain, (In Spanish),
W76-01288 9-03 2I

RKINS, F.
Numerical Errors in Water Profile Computation,
W76-02688 9-06 8B

RKINS, F. E.
Transient Flow Routing in Channel Networks,
W76-02941 9-06 8B

RKINS, L. Z.
Filling and Emptying System for Ice Harbor Lock, Snake River, Washington: Hydraulic Model Investigation,
W76-02536 9-06 8B

Fish Ladders for John Day Dam, Columbia River, Oregon and Washington,
W76-02537 9-06 8I

Ice Harbor Dam, Snake River, Washington: Hydraulic Model Investigation,
W76-03873 9-08 8B

Intake Manifolds and Emptying Valves for Lower Monumental Lock, Snake River, Washington,
W76-08146 9-16 8C

John Day Dam, Columbia River, Oregon and Washington; Hydraulic Model Investigations,
W76-03872 9-08 8B

Little Goose Dam, Snake River, Washington, Hydraulic Model Investigation,
W76-07095 9-14 8A

Lower Monumental Dam, Snake River, Washington: Hydraulic Model Investigation,
W76-03874 9-08 8B

Modification of Fish Ladders, Bonneville Dam, Columbia River, Oregon and Washington,
W76-02547 9-06 8I

Spillway for Little Goose Dam, Snake River, Washington, Hydraulic Model Investigation,
W76-07094 9-14 8B

RKINS, T. K.
Solutions for Some Problems Resulting from Refreezing of Permafrost Around a Wellbore,
W76-08892 9-17 8G

RKINSON, B. T.
Wave Forces on Bottom-Mounted Large-Diameter Cylinder,
W76-06395 9-13 8B

RLMUTTER, M.
Stochastic Sea State for SRB Studies,
W76-13177 9-24 2L

RLMUTTER, N. M.
Hydrogeochemical Data from Investigation of Water Quality in Sewered and Unsewered Areas, Southern Nassau County, Long Island, New York,
W76-05858 9-12 7C

RONA, J. J.
A Pilot Plant for Sewage Treatment by Cross-Flow Filtration,
W76-00246 9-01 5D

PERRIER, A.
Physical Study of Evapotranspiration in Natural Conditions: I. Energy Balance of Natural Surfaces and Evaporation, (In French),
W76-06784 9-13 2D

PERROTTI, A. E.
Activated Carbon Treatment of Phenolic Paint Stripping Wastewater,
W76-12696 9-24 5D

PERRY, C.
Operating Data of a Vertical Plane Surface, Falling Film Evaporator Using Slurry and High Concentration Feeds,
W76-06250 9-13 3A

PERRY, H. M.
The Blue Crab Fishery in Mississippi,
W76-12749 9-24 2L

Phase IV: Biology,
W76-09242 9-17 2L

PERRY, M. J.
Dynamics of Phosphorus Cycling in the Euphotic Waters of the Central North Pacific Ocean,
W76-08939 9-17 5C

Nutrient Regeneration by Oceanic Zooplankton: A Comparison of Methods,
W76-08950 9-17 5C

Phosphate Utilization by an Oceanic Diatom in Phosphorus-Limited Chemostat Culture and in the Oligotrophic Waters of the Central North Pacific,
W76-08938 9-17 5C

PERRY, M. L.
Nongame Mammal Inventory of the Utah Oil Shale Area,
W76-10823 9-20 6G

Raptor Study of Utah Oil Shale Area,
W76-10822 9-20 6G

PERRY, P. A.
Methods of Estimating Residential Land Use for Water Resources Management,
W76-08924 9-17 4C

PERRY, R.
Factors Affecting the Extraction and Analysis of Polynuclear Aromatic Hydrocarbons in Water,
W76-09200 9-17 5A

PERRY, S. K.
Application of Energy-Dispersive X-Ray Fluorescence to Trace Metal Analysis of Natural Waters,
W76-02510 9-06 5A

PERRY, W. G.
Notes on the Spawning of Blue and Channel Catfish in Brackish Water Ponds,
W76-04592 9-10 5C

PERRY, W. J. JR.
Stratigraphy of Atlantic Coastal Margin of United States North of Cape Hatteras--Brief Survey,
W76-01583 9-04 2L

PERSINSKI, L. J.
Inhibition of Scale Deposition,
W76-05529 9-12 5D

PERTSOVICH, A. YU.
The Qualitative Organic Matter Composition of Some Marshy Soils of Nizhnevelikoretsk Plain, (In Russian),
W76-09888 9-18 2G

PESANDO, D.
Effects of Chemical Pollutants on Telemediators Intervening in the Microbiological and Planktonic Ecology in a Marine Environment: III, (In French),
W76-12922 9-24 5C

PESAVENTO, M.
Oscillopolarographic Determination of Cyanide in Waste Electroplating Industrial Effluents,
W76-09822 9-18 5A

PESCH, G. G.
Effects of Ocean Disposal Activities on Mid-Continental Shelf Environment Off Delaware and Maryland,
W76-03175 9-07 5C

PESONEN, L.
Eutrophication in the Helsinki and Espoo Sea Areas Measured as Phytoplankton Primary Production,
W76-03537 9-08 5C

PESONEN, R.
Inshore Effect of Pollution on the Biota of the Baltic, Southern Finland,
W76-08791 9-17 5C

PESSAH, E.
Practical Application of the Toxicity Emission Rate Concept in a Survey of Maritime Pulp and Paper Mills,
W76-09293 9-17 5A

PESTIEAU, P.
A Note on Optimal Taxation of Environmental Spillovers,
W76-03202 9-07 5G

PETER, G.
Designing Water Treatment Plants at the Civil Engineering Consulting Firm Melyepterv (Viztisztitas tervezes a Melyeptiesi Tervezo Vallalatnae),
W76-00562 9-02 5F

PETER, K. D. ET
A Plan for Study of Water and Its Relation to Economic Development in the Green River and Great Divide Basins in Wyoming,
W76-12805 9-24 6D

PETER, R.
Method and Apparatus for Controlling Water Flow From an Impounded Body of Water,
W76-02595 9-06 4A

PETERKA, J. J.
A Limnological Study of Spiritwood Lake, N. D., With Special Emphasis on Its Water Quality, Seasonal Cycles of Chemical Nutrients Phytoplankton, Zooplankton and Primary Production, Part II: Causes and Control of Algal Blooms in Spiritwood Lake, North Dakota,
W76-12214 9-23 5C

Wildlife, Ecology and Planning in a Proposed Irrigation System,
W76-06804 9-14 4C

PETERS, A. J.
Adaptation of a British Waste Management System to the U.S. Environment,
W76-07173 9-14 5D

PETERS, A. W.
Chemical Coagulation/Mixed Media Filtration of Aerated Lagoon Effluent,
W76-02763 9-06 5D

PETERS, H. H.
Industrial and Municipal Sludge Dewatering, The Boeing 'Best' System,
W76-03816 9-08 5D

PETERS, H. T.
Nature and Stability of Complex Mercury Compounds in Surface and Ground Waters, Phase II,
W76-05838 9-12 5A

PETERS, N.
Proliferations in the Fish Epidermis after Treatment with Glycolysis Inhibitors, (Proliferationen der Fishepidermis nach der Einwirkung von Inhibitoren des Glykolytischen Energiestoffwechsels),
W76-02387 9-05 5C

PETERS, R. J.
Distribution of Plutonium in Soil Particle Size Fractions of Liquid Effluent-Receiving Areas at Los Alamos,
W76-08160 9-16 5B

PETERS, R. R.
Techniques of Shallow Well Drilling,
W76-08891 9-17 8B

PETERS, S.
Civil Engineering Features of Geothermal Power Plant,
W76-01701 9-04 8C

PETERSACK, J. F.
Advanced Automatic Control Strategies for the Activated Sludge Treatment Process,
W76-00693 9-02 5D

PETERSEN, D. P.
New Techniques in Vegetation Maintenance on Military Reservations,
W76-11149 9-21 5G

PETERSEN, G. W.
Interdisciplinary Applications and Interpretation of EREP Data Within the Susquehanna River Basin,
W76-13188 9-24 7B

The Penn State Orser System for Processing and Analyzing ERTS Data,
W76-02060 9-05 7C

PETERSEN, M. S.
The Black Hills-Rapid City Flood of June 9-10, 1972: A Description of the Storm and Flood,
W76-02967 9-06 2E

Environmental Aspects--Sacramento Bank Protection,
W76-00621 9-02 4D

PETERSON, C. E.
Removal of Immiscible Fluids from Water Surfaces and Lake Beds,
W76-05984 9-12 5G

PETERSON, D. H.
Processes Controlling the Dissolved Silica Distribution in San Francisco Bay,
W76-07107 9-14 5C

PETERSON, F. F.
Influence of Vesicular Horizons on Watershed Management,
W76-06596 9-13 4D

PETERSON, F. L.
Waste Injection Into the Hawaiian Ghyben-Herzberg Aquifer: A Laboratory Study Using a Sand-Packed Hydraulic Model,
W76-11777 9-22 5B

PETERSON, J.
Upgrading Lakes--Land-Water Relationships,
W76-02646 9-06 5G

PETERSON, J. L.
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W76-11806 9-22 5G

Public Law 92-500--Water Quality Analysis and Environmental Impact Assessment, Technical Report, Volume II,
W76-11807 9-22 5G

PETERSON, J. M.
Benefit Cost Analysis--A Necessary Part of Environmental Decisioning,
W76-12576 9-23 6G

PETERSON, N. J.
An Outbreak of Shigella Sonnei Gastroenteritis on Colorado River Raft Trips,
W76-07691 9-15 5C

PETERSON, R. J.
Continued Evaluation of In-Situ-Formed Condensation Polymers for Reverse Osmosis Membranes,
W76-08116 9-16 3A

In-Situ-Formed Condensation Polymers for Reverse Osomsis Membranes-Final report,
W76-03259 9-07 3A

PETERSON, R. R.
Design Criteria for High-Purity Oxygen Treatment of Kraft Mill Effluent,
W76-02466 9-05 5D

PETERSON, S.
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W76-02451 9-05 5G

PETERSON, W. A.
Awt Plant is Top Performer,
W76-05769 9-12 5D

PETINOV, N. S.
Water Regime and Content of Phosphorus Compounds of Acid-Soluble Fraction in Cotton Leaves at Different Water-Supply Levels, (In Russian),
W76-07276 9-14 2I

PETKOVA-KILIFARSKA, M.
Estimation of the Total Evaporation of Experimental Objects in Climatic Chambers, (In Bulgarian),
W76-06766 9-13 2D

PETR, T.
Dynamics of Benthic Invertebrates in a Tropical Man Made Lake (Volta Lake 1964-1968): Standing Crop and Bathymetric Distribution,
W76-06144 9-12 5C

PETRASEK, A. C.
Municipal Wastewater Reclamation--An Industrial Water Supply,
W76-05318 9-11 5D

PETRASEK, A. C. JR.
Kinetics and Process Control of Nitrification in Completely Mixed Biological Wastewater Treatment,
W76-12620 9-23 5D

The Removal of Metals from Wastewaters by Chemical Treatment and Filtration,
W76-11271 9-21 5D

Water Reuse Research,
W76-11272 9-21 5D

PETRASKO, G.
The Rate of Psychrophilic and Mesophilic Bacteria in Differently Polluted Waters of Budapest (A Psychrophil es a Mesophil Bakteriumok Szamanak Aranya Kueloenboezo Szennyezettsegii Budapesti Vizekben),
W76-05053 9-11 5A

PETRASOVITS, I.
Investigations on Surface Irrigation Methods in the Euphrates Basin,
W76-01888 9-04 3F

PETRE, N.
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W76-12571 9-23 2J

PETREN, O.
Some Observations of the Deep Flow in the Bornholm Strait During the Period June 1973-December 1974,
W76-07557 9-15 2L

PETRI, L. R.
Water Resources Data For Nebraska, 1974: Part 2. Water Quality Records,
W76-02656 9-06 7C

PETROCELLI, S. R.
Controlled Food-Chain Transfer of Dieldrin Residues From Phytoplankters to Clams,
W76-00867 9-02 5B

Sublethal Effects of Oil, Heavy Metals and PCB's on Marine Organisms,
W76-00324 9-01 5C

Survival and Chloride Ion Regulation of the Porcelain Crab Petrolisthes Armatus Exposed to Mercury,
W76-02328 9-05 5C

Toxicity of Polychlorinated Biphenyls (Aroclor 1254) to Adult, Juvenile and Larval Stages of the Shrimp Palaemonetes Pugio,
W76-10075 9-19 5C

PETROFF, P. D.
Processed Sewage Effluent,
W76-04619 9-10 5A

PETRONIO, B. M.
Chromatographic Determination of Constituents in Etheral Extracts from Industrial Waste Waters (Del Constituenti L'Estratto Etereo di Acque Industriali),
W76-03998 9-08 5A

Study on the Removal of Aromatic Hydrocarbons from Industrial Wastewaters by Means of Activated Carbon (Studio per la rimozione di idrocarburi aromatici da acqua di scarico industriali tramite carboni attivi),
W76-07758 9-15 5D

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daptation of Feed Yeast to a Cellulosic Effuent Medium (in Armenian with Russian summary),
'76-10847 9-20 5D

'ROU, B. N.
he Economics of Alternative Deep Seabed egimes,
'76-05816 9-12 6E

'ROV, A. A.
rtificial Radioactivity of Sea Water and Food ydrobionts of the World Ocean,
'76-06887 9-14 5B

'ROV, Y. M.
r90 and Cs137 in Surface Waters of the Baltic, orth, Irish, and Norway Seas,
'76-06889 9-14 5B

'ROVA, M. A.
cology of Planktonic Infusoria of Secondary-ligotrophic Lake, (In Russian),
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roduction of Planktonic Crustaceans of Two econdary Oligotrophic Lakes, (In Russian),
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'ROVSKII, L. E.
anitary Characterization of the Sergeevka eservoir, (In Russian),
'76-02446 9-05 5C

'RUSO, S.
ossible use of High-Level Radiation for the egradation of Some Substances Present in rban and Industrial Waters,
'76-09533 9-18 5D

'RY, T. M.
etermination of Dispersive Clay Soil Erodiility by Using a Physical Test,
'76-12460 9-23 2G

dentification and Treatment of Dispersive lay Soils,
'76-06611 9-13 8D

'RYAEV, E. P.
n the Mechanism of Gamma-Radiolysis of Effuents (K mekhanizmu gamma-radioliza tochnykh vod),
'76-12508 9-23 5D

'RYK, S.
nalysis of Flow Through Vegetation,
'76-00015 9-01 4A

'TIGREW, N.
leasurement of Swash Profile and Orbital Moon on the Beach,
'76-02394 9-05 2L

'TIS, R. W.
race Metals in Melbourne Rivers-An Interaboratory Analysis,
'76-01770 9-04 5A

'TRY, D. E.
hosphorus Distribution from Septic Tank Effluent in Coastal Plain Soils,
'76-10015 9-19 5B

'TYJOHN, W. A.
hloride Contamination in Alum Creek, Cenral Ohio.
'76-00910 9-02 5B

Ground Water Flow No Longer a Mystery,
'76-08114 9-16 2F

PETZOLD, T. J.
Beam Transmissometers for Oceanographic Measurements,
W76-03879 9-08 2L

Volume-Scattering Functions in Ocean Waters,
W76-03880 9-08 2L

PEUS, F.
The 'Rheinschnaken' (Diptera, Culicidae) Species, Life Style, Ecology, Mass Development, and Control, (In German),
W76-06768 9-13 2I

PEVZNER, I. D.
Treatment of Wastewaters from Carbamide Resin Production (Ochistka stochnykh vod ot proizvodstva karbamidnoy smoly),
W76-04086 9-09 5D

PEYTON, M. W.
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W76-01530 9-04 3B

PFADENHAUER, J.
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W76-03274 9-07 4A

PFAENDER, F. K.
Distribution and Biomagnification of Hexachlorophene in Urban Drainage Areas,
W76-03248 9-07 5B

PFANDER, W. H.
Nature and History of the Nitrate Problem,
W76-01033 9-03 5B

PFEFFER, J. T.
Rest Area Wastewater Treatment and Disposal,
W76-12855 9-24 5D

PFEIFFER, G. H.
Economic Costs of Controlling Water Quality Through Management of Irrigation Return Flows,
W76-12218 9-23 5G

PFEIFFER, W. J.
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W76-08688 9-16 5C

PFISTER, R. E.
Protection of Free-Flowing Rivers,
W76-09235 9-17 6E

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W76-08592 9-16 5C

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W76-12736 9-24 5C

PFUDERER, P.
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PFUND, R. T.
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W76-05013 9-11 10C

PHATARFOD, R. M.
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W76-12197 9-23 4A

PHAUP, C. W.
Sprinkler Adjustment,
W76-11446 9-21 3F

Sprinkler Control,
W76-06466 9-13 3F

PHEIFFER, T. H.
Summary and Conclusions: Nutrient Transport and Accountability in the Lower Susquehanna River Basin,
W76-06575 9-13 5B

PHELAN, R. A.
Use of Waterhyacinths to Remove Nitrogen and Phosphorus from Eutrophic Waters,
W76-01148 9-03 5C

PHELPS, V. A.
Fast Current Oil Control Study,
W76-08748 9-16 5G

Fast Current Oil Response Systems, Tests on Phase I Concepts,
W76-12385 9-23 5G

PHENE, C. J.
Tillage, Matric Potential, Oxygen and Millet Yield Relationships in a Layered Soil,
W76-13022 9-24 3F

PHILBERT, F. J.
Applicability of the Technicon Autoanalyzer I and II Systems for Shipboard Analysis of Great Lakes Water Samples,
W76-10497 9-19 5A

PHILIP, J. R.
The Growth of Disturbances in Unstable Infiltration Flows,
W76-06398 9-13 2G

Stability Analysis of Infiltration,
W76-09588 9-18 2G

Steady Infiltration form Buried, Surface, and Perched Point and Line Sources in Heterogeneous Soils: II. Flow Details and Discussion,
W76-00649 9-02 2G

PHILIPPO, A.
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W76-09657 9-18 5C

PHILIPS, G.
Optimal Estimation of DO, BOD, and Stream Parameters Using a Dynamic Discrete Time Model,
W76-13167 9-24 5A

PHILIPSON, W. R.
Remote Sensing of Ground and Surface Water Contamination by Leachate from Landfill,
W76-10666 9-20 5A

PHILLIP, A. T.
Trace Metals in Melbourne Rivers-An Interlaboratory Analysis,
W76-01770 9-04 5A

PHILLIPS, B. L.
Ion Exchange of Metals from Aqueous Solutions,
W76-03516 9-08 5D

PHILLIPS, D. W.
IFYGL Weather Highlights,
W76-11299 9-21 2B

PHILLIPS, E.
Survey of Corrosion of Prestressing Steel in Concrete Water-Retaining Structures,
W76-02535 9-06 8G

PHILLIPS, G. A.
Developments in Sewage Treatment at Leeds,
W76-03679 9-08 5D

PHILLIPS, H. O.
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W76-01748 9-04 5D

PHILLIPS, J.
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W76-04223 9-09 5D

PHILLIPS, J. A.
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W76-11774 9-22 5D

PHILLIPS, J. H.
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W76-10050 9-19 5C

PHILLIPS, J. M.
Wastes Recycling Before Final Waste Disposal,
W76-03838 9-08 5D

PHILLIPS, K. J.
A Matrix Approach for Determining Wastewater Management Impacts,
W76-11128 9-21 5G

A Supplemental Socio-Environmental Decision Tool: Value Conflicts on Long Island,
W76-05049 9-11 5D

PHILLIPS, O. M.
Wave Breaking in the Presence of Wind Drift and Swell,
W76-09874 9-18 2L

PHILLIPS, R. C.
Future Applications of Desalting Processes for Reduction of Industrial Water Pollution,
W76-03153 9-07 3A

PHILLIPS, R. E.
Diffusion and Mass Flow of Nitrate-Nitrogen to Plant Roots,
W76-10182 9-19 2G

PHILP, R. H.
Determination of Nitrate in Water Samples Using A Portable Polarographic Instrument,
W76-02506 9-06 5A

PHINNEY, D. E.
Repopulation of an Eradicated Stream Section by Brook Trout,
W76-03772 9-08 5C

Retention of Fluorescent Pigment by Coho Salmon After Two Years,
W76-04332 9-09 2I

PHINNEY, H. K.
Swine Waste Nutrient Recovery System Based on the Use of Thermal Discharges,
W76-07179 9-14 5D

The Use of Waste Heat in a System for Animal Waste Conversion with By-Product Recovery and Recycling,
W76-01806 9-04 5D

PHOENIX, D. A.
Summary Appraisals of the Nation's Ground-Water Resources--California Region,
W76-09139 9-17 4B

PHUNG, T.
Disposition of Water from Fruit Crops and Approaches to Increase Water use Efficiency,
W76-06807 9-14 2D

PIAVIS, G. W.
Effects of 3-Trifluoromethyl-4-Nitrophenol (TFM) on Developmental Stages of the Sea Lamprey,
W76-08064 9-15 5C

PICARD, J.
Causes of Decrease and Disappearance of the Seagrass Posidonia Oceanica on the French Mediterranean Coast (Causes de la Rarefaction et de la Disparation des Herbiers de Posidonia Oceanica sur les Cotes Francaises de la Mediterranee),
W76-00876 9-02 5B

PICCARD, J. E. J.
How Modern Technology Is Endangering Our Lives: Ocean Pollution,
W76-12018 9-22 5G

PICCININI, N.
Effects of Gamma Irradiation on the Degradation of Dyes,
W76-09532 9-18 5D

PICER, M.
Determination of 14C-DDT Radioactivity in Sea Water and Marine Suspended Matter by Liquid Scintillation,
W76-10518 9-20 5A

PICER, N.
Determination of 14C-DDT Radioactivity in Sea Water and Marine Suspended Matter by Liquid Scintillation,
W76-10518 9-20 5A

PICHON, M.
Color Removal from Kraft Effluent by Ultrafiltration with new Polymeric Membranes,
W76-04758 9-10 5D

PICKARD, G. L.
Annual and Longer Term Variations of Deep-water Properties in the Coastal Waters of Southern British Columbia,
W76-02693 9-06 2L

Deepwater Exchanges in Bute Inlet, British Columbia,
W76-04096 9-09 2L

PICKENS, J. F.
Numerical Simulation of Waste Movement in Steady Groundwater Flow Systems,
W76-09564 9-18 5B

PICKERING, G. A.
Fourmile Run Local Flood-Control Project, Alexandria and Arlington County, Virginia; Hydraulic Model Investigation,
W76-07469 9-15 8B

PICKERING, R. J.
Design of Nationwide Water-Quality-Monitoring Networks,
W76-09209 9-17 5A

Design of Nationwide Water-Quality Monitoring Networks,
W76-10643 9-20 5A

PICKETT, D. E.
Canadian Milling Practice for Water Re-Use,
W76-08272 9-16 5D

PICKETT, E. B.
Los Angeles and Long Beach Harbors Model Study; Report 1, Prototype Data Acquisition and Observations,
W76-11751 9-22 8B

PICKETT, E. E.
A Lagoon-Grass Terrace System to Treat Swine Waste,
W76-07198 9-14 5D

PICKETT, R. L.
Lake Ontario Circulation in November,
W76-12430 9-23 2H

Lake Ontario Mean Temperatures and Currents in July 1972,
W76-03740 9-08 2H

PICKLE, W. S.
Chevron Main Pass Block 41 Oil Spill: Chemical and Biological Investigations,
W76-00145 9-01 5A

PICKUP, G.
Effects of Hydrologic Regime on Magnitude and Frequency of Dominant Discharge,
W76-08514 9-16 2E

Flume Study of Knickpoint Development in Stratified Sediment,
W76-05162 9-11 2J

PICKWELL, G. V.
Fishes in Oxygen-Minimum Zones: Blood Oxygenation Characteristics,
W76-09112 9-17 5C

PICO, R. F.
Joint Treatment versus Pretreatment of Food-Processing Wastes,
W76-04080 9-09 5D

PIDGAIKO, M. L.
Production of Pontogammarus Robustoides Grimm. In the Reservoir-Cooler of the Kurakhovian State Regional Electric Power Station, (In Russian),
W76-13200 9-24 5C

PIECZYNSKI, E.
Experimentally Increased Fish Stock in the Pond Type Lake Warniak. XII. Numbers and Biomass of the Fauna Associated with Macrophytes,
W76-01174 9-03 2H

PIEPENBREIER, G.
Purification of Textile Waste Water-Results of Experiment Series (Reinigung Von Textilabwaessern-Ergebnisse Von Versuchen),
W76-05110 9-11 5D

PIERCE, D. E.
Mercury Distribution in Ancient and Modern Sediment of Northeastern Bering Sea,
W76-01586 9-04 5B

PIERCE, D. M.
Performance of Raw Waste Stabilization Lagoons in Michigan with Long Period Storage Before Discharge,
W76-07052 9-14 5D

PIERCE, F. D.
An Automated Technique for the Sub-Microgram Determination of Selenium and Arsenic in

urface Waters by Atomic Absorption Spec-roscopy,
V76-05736 9-12 5A

Microgram Determination of Boron in Surface Waters by Atomic Emission Spectrometry,
V76-11397 9-21 5A

ERCE, J. C.
Citizen Influence in Water Policy Decisions: Context, Constraints, and Alternatives,
V76-01332 9-03 6B

Public Attitudes Toward Water Allocation in he State of Washington: Citizens, Interest Groups, and Agencies,
V76-04513 9-10 6B

ERCE, J. W.
Deposition in Upper Patuxent Estuary, Mary-and, 1968-1969,
V76-10925 9-20 4C

ERCE, R. M.
Comparison Study of Models used to Prescribe Hydrometeor Water Content Values, Part I: Preliminary Results,
V76-13172 9-24 2B

ERRE, J. F.
Microbiological and Algological Survey of A Primary Stage of Eutrophication in a Stream, In French),
V76-09399 9-17 5C

ERREHUMBERT, C. L.
Synthetic Input Data Time Series for Catchment Model Testing,
V76-04144 9-09 2A

ERSON, W. J.
The Theory and Applications of Ocean Wave Measuring Systems at and Below the Sea Sur-face, on the Land, from Aircraft, and from Spacecraft,
V76-08145 9-16 7B

EST, R. F.
Sampling and Calculation Methods for Deter-mining Quantities of Nitrogen and Phosphorus n Watershed Runoff,
V76-12372 9-23 5A

Sampling Procedures for Nitrogen and Phosphorus in Runoff,
V76-04681 9-10 5A

Soil and Water Conservation with Western Iowa Tillage Systems,
V76-08805 9-17 4D

ET, G. J.
Cause and Identification of Taste and Odour Compounds in Water,
V76-06009 9-12 5A

ETERS, T.
Mass Transport in Gravity Waves on a Sloping Bottom,
V76-12190 9-23 2L

ETRARU, V.
Computation of Economic Data Concerning the Exploitation of Groundwater on a Regional Scale,
V76-00819 9-02 4B

ETRI, C.
Study of the Dispersion of Bacteriophages in a Natural Marine Environment, (In French),
V76-06691 9-13 5B

PIETROWSKI, R. F. JR.
Boundaries of Seabed Jurisdiction off the Pacific Coast of Asia,
W76-11897 9-22 6E

PIETRUSZEWSKI, J. J.
Hypolimnion Oxygenation,
W76-11454 9-21 5G

PIETZNER, H.
Progress with the Decarbonization Processes (Fortschritte in der Verfahrenstechnik der Ent-carbonisierung),
W76-01545 9-04 5F

PIJANOWSKI, B. S.
The Meaning and Measurement of Turbidity,
W76-11240 9-21 5A

PILCHER, K. S.
Relation of Water Temperature to Ceratomyxo-sis in Rainbow Trout (Salmo Gairdneri) and Coho Salmon (Oncorhynchus Kisutch),
W76-12716 9-24 5C

Temperature, Infectious Diseases, and the Im-mune Response in Salmonid Fish,
W76-11191 9-21 5C

PILGRAM, D. H.
Travel Times and Nonlinearity of Flood Runoff from Tracer Measurement on a Small Watershed,
W76-11850 9-22 2E

PILGRIM, D. H.
Hydrograph Recession Constants for New South Wales Streams,
W76-00541 9-02 2E

Model Evaluation, Testing and Parameters Estimation in Hydrology,
W76-04142 9-09 2A

Parameter Optimization for Watershed Models,
W76-09853 9-18 2A

PILIE, R. J.
The Life Cycle of California Coastal Fog Onshore,
W76-01493 9-03 2B

Methods to Treat, Control and Monitor Spilled Hazardous Materials,
W76-01869 9-04 5G

Technology For Managing Spills On Land And Water,
W76-03595 9-08 5G

PILKEY, O. H.
Geological Oceanography Considerations,
W76-11482 9-21 6G

PILLAI, K. C.
Determination of Plutonium in the Marine En-vironment,
W76-08615 9-16 5A

Plutonium in the Aquatic Environment, Its Behaviour, Distribution and Significance,
W76-08599 9-16 5C

Radioruthenium in Coastal Waters,
W76-08619 9-16 5A

PILLAI, N. N.
Studies on the Operation of Gobindsagar Reservoir,
W76-08068 9-15 4A

PILLAI, S. C.
Factors in the Purification of Flowing Sewage and Activated Sludge Process, Part I,
W76-05795 9-12 5D

Factors in the Purification of Flowing Sewage and Activated Sludge Process - Part 2,
W76-10513 9-20 5D

PILLAY, K. K. S.
Neutron Activation Analysis of Some of the Biologically Active Trace Elements in Fish,
W76-06753 9-13 5A

PILLSBURY, R. D.
Alongshore Coherence at Low Frequencies in Currents Observed over the Continental Shelf Off Oregon and Washington,
W76-01271 9-03 2L

Influence of Surface Waves on Subsurface Current Measurements in Shallow Water,
W76-12431 9-23 2L

PILTZ, F.
Induction of Abnormal Polychaete Larvae by Heavy Metals,
W76-11726 9-22 5C

PILTZ, F. M.
The Effect of Heavy Metals on Laboratory Populations of Two Polychaetes with Com-parisons to the Water Quality Conditions and Standards in Southern California Marine Waters,
W76-08451 9-16 5C

PIMENOV, I. V.
Removal of Oils from Waste Waters (Ochistka stochnykh vod ot masel),
W76-00124 9-01 5D

PIMENOVA, G. S.
The Effect of Forest on Minimum River Ru-noff in the Broad-Leaved Forest Zone and Forest-Steppe of the European Part of the USSR, (In Russian),
W76-06783 9-13 4C

PINCINCE, A. B.
Sludge Disposal Alternatives,
W76-06292 9-13 5E

PINDER, G. F.
An Analysis of the Numerical Solution of the Transport Equation,
W76-12434 9-23 5B

Finite-Difference Model for Aquifer Simulation in Two Dimensions with Results of Numerical Experiments,
W76-13085 9-24 2F

Galerkin Finite-Element Simulation of a Geothermal Reservoir,
W76-01179 9-03 1A

Numerical Simulation of Salt-Water Intrusion in Coastal Aquifers, Part 1,
W76-05010 9-11 5B

Numerical Simulation of Salt-Water Intrusion in Coastal Aquifers, Part 2,
W76-05011 9-11 5B

Transient Simulation of Saltwater Intrusion in Southeastern Florida,
W76-11689 9-22 2L

PINDER, J. E.
Frequency Distributions of Radiocesium Con-centrations in Soil and Biota,
W76-10273 9-19 5B

PINEZICH, J. R.
Septic Tanks,
W76-00598 9-02 5E

PINGRY, D.
Cost Allocation for a Regional Pollution Treatment System,
W76-05442 9-11 5G

PINGRY, D. E.
Application of Multigoal Water Quality Planning Model,
W76-01616 9-04 5G

Energy Costs of Wastewater Reuse,
W76-12215 9-23 5D

The Large-Scale Regional Plant Hypothesis: Discriminant Analysis,
W76-05267 9-11 5G

PINIGIN, M. A.
Some New Approaches to Solving Urgent Problems in the Theory and Practice of Hygienic Standards for Injurious Substances ,
W76-01659 9-04 5G

PINKAYAN, S.
Measurement and Analysis of Very Short Duration Rainfall,
W76-00002 9-01 2B

PINKHAM, C. F. A.
A New Measure of Biotic Similarity Between Samples and its Applications with a Cluster Analysis Program,
W76-00325 9-01 7B

PINNER, R.
Effluent Problems and Material Recovery in the Electroplating Industry.
W76-04775 9-10 5D

PINO, F.
Simultaneous Spectrophotometric Determination of Nickel and Cobalt in Mixtures with 3-Hydroxypicolinealdehyde Azine,
W76-09042 9-17 5A

PINON, J.
Diffusion and Migration of Polluted Water Along the Belgian Beaches. New Experiment Involving Dumping of 100 kg Rhodamine B: Preliminary Conclusions, (In French),
W76-07207 9-14 5B

PINTER, J.
A Stochastic Programming Model Applied to Water Resources Management,
W76-11144 9-21 4A

PIPES, W. O.
Frequency Distributions for Coliform Bacteria in Water,
W76-10650 9-20 5A

PIRA, E. S.
Chamber Method of Subsurface and Drip Irrigation,
W76-01076 9-03 3F

Method and Apparatus for Controlled Drip Irrigation from Chamber Means Located at Varying Elevations Along Soil Areas to be Irrigated,
W76-02256 9-05 3F

PIRIE, D. M.
California Coastal Processes Study,
W76-02045 9-05 7B

PISAREV, V. V.
Effects of Some Natural Factors on the Transition of Sr90 from the Soil Cover to Surface Waters,
W76-06865 9-14 5B

PISKUNOV, L. I.
Statistical Probability Characteristics of the Accumulation of Radionuclides in Freshwater Plants, (In Russian),
W76-13189 9-24 5A

PITA, F. W.
The Depositional Environment of Zinc, Lead and Cadmium in Reservoir Sediments,
W76-00292 9-01 5B

PITCAIRN, F. U.
Experience with Land Application of Wastewater and State Regulations - Pennypack Watershed-Pennsylvania,
W76-11643 9-22 5D

PITKYANEN, G. B.
Characteristics of the Radiation Conditions of Development of Eggs of Freshwater Fishes Belonging to Diffeent Ecological Groups, (In Russian),
W76-02615 9-06 5C

Distribution and Migration of Sr90 in an Experimental Still Water Reservoir,
W76-06879 9-14 5B

PITMAN, E. H.
Water Treatment Untouched by Human Hands - Almost,
W76-08266 9-16 5F

PITT, R.
Water Quality Management Planning for Urban Runoff,
W76-02758 9-06 5D

PITT, W. A. J.
Ground-Water Quality in Selected Areas Serviced by Septic Tanks, Dade County, Florida,
W76-06442 9-13 5B

PITT, W. A. J. JR.
Effects of a Landfill Operation on Ground-Water Quality in North Broward County, Florida,
W76-04404 9-09 5B

Ground-Water Quality at the Site of a Proposed Deep-Well Injection System for Treated Wastewater, West Palm Beach, Florida,
W76-11681 9-22 5A

PITT, W. W.
Chlorination of Organics in Cooling Waters and Process Effluents,
W76-12882 9-24 5A

PITT, W. W. JR.
Determination of Trace Organics in Municipal Sewage Effluents and Natural Waters By High-Resolution Ion-Exchange Chromatography,
W76-02507 9-06 5A

PITTER, P.
Determination of Biological Degradability of Organic Substances,
W76-08351 9-16 5B

PITTMAN, D. L.
Guidelines for Handling Liquid Waste from Feedlots,
W76-12368 9-23 5G

PITTS, F. H.
Development of a Three-Dimensional Time-Dependent Flow Field Model,
W76-08328 9-16 2L

PIWECKI, T.
A Mathematical Model for Forecasting the Flow of the Sola River,
W76-00298 9-01 2A

PIYALKIN, V. N.
Organic Compounds From Kraft Pulping Effluents. III. Phenols (Organicheskie veshchestva stochnykh vod sul'fatnotsellyuloznogo proizvodstva. III. Fenoly),
W76-00055 9-01 5A

Phenols -- Products of Lignin Degradation -- in Effluents of the Baikal Pulp and Paper Mill (Fenoli -- produkty razrusheniya lignina -- v stochnykh vodakh Baikal'-skogo tsellyuloznogo zavoda),
W76-09281 9-17 5A

PLASS, W. T.
Changes in Water Chemistry Resulting from Surface-Mining of Coal on Four West Virginia Watersheds,
W76-09470 9-18 4C

PLATE, E. J.
Simulation as a Tool in International River Development,
W76-05757 9-12 6A

PLATTS, W. S.
Time Trends in Riverbed Sediment Composition in Salmon and Steelhead Spawning Areas: South Fork Salmon River, Idaho,
W76-07018 9-14 2J

PLECNAC, V.
The Czechoslovak Water Development Planning Approach and Its Application,
W76-05749 9-12 6A

PLETNIKOVA, I. P.
Hygienic Assessment of the Existing Technology of Drinking Water Treatment and Certain Means of Its Improvement, (Gigienicheskaya otsenka sushchestvuyushchey tekhnologii ochistki pit'evoy vody i nekotorye puti ee uluchsheniya),
W76-03220 9-07 5F

PLEWES, M. E.
Environmental Assessment: A Planning Tool,
W76-11649 9-22 6G

PLINSKI, M.
Changes in Plankton Resulting From Eutrophication of a Baltic Firth,
W76-01948 9-04 5C

PLITMAN, S. I.
Drinking Water Purification in Industrially Manufactured Compact Installations of the Type 'Struya', (In English),
W76-08579 9-16 5F

PLOCK, C. E.
Reverse Osmosis Pilot Plant Studies for the Purification and Reuse of Effluent from a Sanitary Waste Treatment Plant,
W76-11267 9-21 5D

PLODOWSKI, T.
Concept Analysis: Offshore Breakwater-Oil Storage System,
W76-09904 9-18 8A

Features of Various Offshore Structures,
W76-09311 9-17 8A

UHOWSKI, E. J.
Dynamics of Suspended Sediment Plumes in Lake Ontario,
W76-02963 9-06 2J

UMB, R. H.
A Bioassay Dilution Technique to Assess the Significance of Dredged Material Disposal,
W76-06709 9-13 5C

UMB, R. H. JR.
Phosphate, Algae, and Taconite Tailings in the Western Arm of Lake Superior,
W76-11441 9-21 5C

UMMER, D.
Sludge Incineration and Precipitant Recovery, Volume I, A Selective Coded Bibliography,
W76-07678 9-15 5E

UMMER, L. N.
MIX2: A Computer Program for Modeling Chemical Reactions in Natural Waters,
W76-08062 9-15 7C

UNTZE, J. C.
Health Aspects of Uncovered Reservoirs,
W76-05232 9-11 5F

ATS, F. J.
Alternatives for Reducing Water Pollution in Cattlehide Processing and Tanning,
W76-08285 9-16 3E

BEDIMSKY, A.
Relations Between Project Economics and Hydrological Data,
W76-11970 9-22 6B

C, M.-M.
The Ice Nucleating Properties of an Ultrafine Aerosol of Pure Silver Iodide,
W76-02554 9-06 2B

CHAPSKY, T. E.
Vertical Structure of Currents and Deep Temperatures in the Western Sargasso Sea,
W76-06690 9-13 2L

CHE, J. M.
Floating Oil Fence,
W76-05020 9-11 5G

CHKIN, Y. N.
Technique of Water Sampling in Sanitary Investigations of Large Bodies of Water, (In Russian),
W76-09928 9-18 5A

CHOP, L. O.
Comparison of Methods for Estimating Potential Evapotranspiration in the North Platte Basin of Wyoming,
W76-11115 9-21 2D

Evapotranspiration by Phreatophytes in the North Platte Basin of Wyoming,
W76-00673 9-02 2D

CS, K. K.
The Continuous Aluminum-Foil Hydrometeor Sampler; Design, Operation, Data Analysis Precedures, and Operating Instructions,
W76-13173 9-24 2B

DGAEVSKAYA, L. V.
Experimental Study of the Effect of Temperature and Degree of Oxygen Saturation on the Destruction rate of Soluble Proteins in Natural Waters, (In Russian),
W76-09078 9-17 5C

PODGORSKI, W.
A Characteristic of the Lakes of the Leczynsko-Wlodawskie Lake District Based on Abiotic Environmental Factors, (In Polish),
W76-07943 9-15 5C

PODOLICK, P. A.
Preparing an Infiltration/Inflow Analysis,
W76-00564 9-02 5D

PODUSKA, R. A.
Dynamics of Nitrification in the Activated Sludge Process,
W76-03672 9-08 5D

Dynamics of Nitrification in the Activated Sludge Process,
W76-03797 9-08 5B

PODZIMEK, J.
Retardation of Condensation Nuclei Growth by Surfactant,
W76-00908 9-02 2B

Some Remarks on Modeling of the Early Stages of Cloud Formation in a Simulation Chamber,
W76-07070 9-14 2B

POELLOT, J. H.
Engineering, Environmental and Economic Planning for Coal Refuse Disposal,
W76-06947 9-14 5G

POELSTRA, P.
The Contaminaion of Dutch Soils with Mercury and a Few Other Heavy Metals,
W76-07450 9-14 5B

POEPEL, F.
Possibilities and Limits of Extended Waste Water Purification (Moeglichkeiten und Grenzen der Weitergehanded Abwasserreinigung),
W76-09683 9-18 5D

POGAINIS, E. M.
Catalyzed Process and Catalyst Recovery,
W76-05064 9-11 5D

POGGE, E. C.
Development and Field Testing of a Basin Hydrology Simulator,
W76-05745 9-12 2A

POHL, G.
Process for the Precipitation of Heavy Metal Ion-Polycarboxylate Complexes,
W76-11452 9-21 5D

POHLAND, F. G.
Landfill Stabilization with Leachate Recycle,
W76-02440 9-05 5E

Measurement of Active Biomass Concentrations in Biological Waste Treatment Processes,
W76-02268 9-05 5D

Sanitary Landfill Stabilization with Leachate Recycle and Residual Treatment,
W76-13187 9-24 5E

POINTON, M. J.
Removal of Dissolved Boron and Silicon During Estuarine Mixing of Sea and River Waters,
W76-09725 9-18 2K

POIRE, A.
Principle of Management of Degenerated Inlets and Estuaries,
W76-09958 9-18 8B

POJE, G. V.
A Laboratory Study on the Effects of the Exposure of Some Entrainable Hudson River Biota to Hydrostatic Pressure Regimes Calculated for the Proposed Cornwall Pumped Storage Plant,
W76-07496 9-15 5C

POKORNI, Y.
The Effect of Pesticides on the Quality of Bodies of Water, (In Russian),
W76-11733 9-22 5C

POKROVSKII, V. N.
Waterworks of Thermal Electric Power Stations,
W76-12811 9-24 8C

POLAKOWSKA, E.
The Vegetation of the 'Lukniany Lake' Nature Reserve in the Mazurian Lake District,(In Polish),
W76-09990 9-18 5C

POLAKOWSKI, B.
The Vegetation of the 'Lukniany Lake' Nature Reserve in the Mazurian Lake District,(In Polish),
W76-09990 9-18 5C

POLAND, J. F.
New Tritium Data on Movement of Groundwater in Western Fresno County, California,
W76-03388 9-07 5B

POLCYN, F. C.
Updating Coastal and Navigational Charts Using ERTS-1 Data,
W76-02042 9-05 7B

POLDERMAN, P. J. G.
The Algae of Saline Areas Near Vlissingen (The Netherlands),
W76-01173 9-03 5C

POLEVSHCHIKOV, V. I.
Sulphuric Acid Containing Rinses, Purification,
W76-08506 9-16 5D

POLHYDY, A.
Treatment of Surface Waters for Domestic Supply (Felszini vizek kezelese ivoviz celjara),
W76-00270 9-01 5F

POLICASTRO, A.
Ohio River Cooling Water Study,
W76-10414 9-19 5C

POLICASTRO, A. J.
Analysis of Three Years of Complete-Field Temperature Data From Different Sites of Heated Surface Discharges into Lake Michigan,
W76-02683 9-06 5B

POLIKARPOV, G. G.
Accumulation of Sr90, Ca, and Sr By Fish in Seas And Oceans,
W76-06896 9-14 5C

Uptake of Sr90 by Organisms of Gammarus Sp and Chironomus F. L. Plumosus L.,
W76-06881 9-14 5C

POLINEK, V.
Process for Precleaning Industrial Waste Water Resulting from the Processing of Water-Soluble Phenolic Resins or Urea-Formaldehyde Resin Solutions (Verfahren zur Vorreinigung von bei der Verarbeitung von wasserloeslichen phenolischen Resolen oder von Harnstoff-For-

POLINEK, V.

maldehydharzloesungen anfallendem Industrieabwasser),
W76-12504 9-23 5D

POLISHCHUK, L. R.
Determination of Microquantities of Naphthalene in Environmental Objects, (In Russian),
W76-09620 9-18 5A

Quality of Potatoes Grown on Fields Irrigated with Wastewaters of Coal-Tar Chemical and Metallurgical Plants, (In Russian),
W76-12355 9-23 5C

POLKOWSKI, L. B.
Network Models and the Impact of Modeling Assumptions,
W76-10196 9-19 4A

POLLAKOWSKI, H. O.
The Economic Value of Undeveloped Shoreline,
W76-04516 9-10 6B

POLLARD, C. O.
Multivariate Analysis of Georgia Coastal Plain Groundwaters,
W76-12466 9-23 2F

POLLARD, F.
Waste Control for Job Platers,
W76-02793 9-06 5D

POLLINGHER, U.
N and P Distribution in Lake Kinneret (Israel) with Emphasis on Dissolved Organic Nitrogen,
W76-06268 9-13 5B

POLLINGTON, D. C.
Washington Sewage Works: Design and Operation,
W76-03717 9-08 5D

POLLONI, P. T.
Quantitative Biological Assessment of the Benthic Fauna in Deep Basins of the Gulf of Maine,
W76-03783 9-08 5B

POLOVTSEV, O. P.
Hygienic Substantiation of the Possibility of Wastewater Treatment of Poultry Processing Plants on Underground Filter Beds, (In Russian),
W76-08581 9-16 5D

POLUHOWICH, J. J.
Blood Oxygen Capacities of Eels Acclimated to Fresh-, Brackish-, and Salt-Water Environments,
W76-03015 9-07 5C

POLYAKOVA, K. N.
Characteristics of the Forecast of the Dates of Ice Appearance in the Lena River, of their Probability Distribution, and of the Freeze-Up Regime,
W76-11867 9-22 2C

POMEROY, B. S.
Survival of Pathogens in Animal Manure Disposal,
W76-02765 9-06 5C

POMEROY, L. R.
Mineral Cycling in Marine Ecosystems,
W76-10278 9-19 5C

PONCE, S. L.
Demand for Dissolved Oxygen Exerted by Finely Divided Logging Debris in Streams,
W76-05939 9-12 4C

Surface Runoff and its Effect on Diffuse Salt Production From Mancos Shale Members,
W76-06583 9-13 2G

PONITKA, E.
Determination of Boron in Drinking Water from Koszalin Province, (In Polish),
W76-12261 9-23 5A

PONIZOVSKII, V. Z.
Method of Controlling the Process of Chemical Purification of Effluents (Sposob operataivnogo upravleniya protsessom khimicheskoi ochistki stochnykh vod),
W76-11389 9-21 5D

PONIZOVSKIY, V.
Process Control Method for the Chemical Purification of Wastewaters (Sposob operativnogo upravleniya protsessom khimicheskoy ochiskki stochnykh vod),
W76-07762 9-15 5D

PONREHN, H.
Thermal Power Plant Siting in an Arid Region-Environmental Constraints,
W76-00759 9-02 3E

POOLE, D. K.
Water Relations of Selected Species of Chaparral and Coastal Sage Communities,
W76-06259 9-13 3B

POOLE, R. L.
Dissolved Oxygen Probe,
W76-12391 9-23 5D

POON, C. P. C.
Kinetics and Control Tests of Nitrification-Denitrication Process, Part I: Kinetics,
W76-09365 9-17 5D

Nutrient Exchange in Water-Sediment Interface and its Effects on Water Quality,
W76-00715 9-02 5C

POP, V. I.
Determination of the Possibility of the Biological Treatment of Wastewaters Generated in Petroleum Refineries. Part V. Degradation of Naphthenic Acids and Sulfonic Acids (Determinarea Tratabilitatii biologice a apelor reziduale din rafinariile de petrol. V. Degradarea acizilor naftenici si a acizilor sulfonici).
W76-00126 9-01 5D

POPA, E.
Microbiological Characterization of the Lacustrine Deposit Laid Open by Drying up of the Greaca Lake, (In Romanian),
W76-12571 9-23 2J

POPE, G. F.
The Influence of Fish on the Distribution of Chaoborus spp. (Diptera) and Density of Larvae in the Matamek River System, Quebec,
W76-00993 9-02 2H

POPE, J. D. JR.
Colorimetric Determination of Paraquat Residues in Soil and Water,
W76-12149 9-22 5A

POPE, P. E.
The Influence of Moisture Stress on Liriodendron Tulipifera L. Seedlings,
W76-07259 9-14 2I

POPE, T. A.
Fe-Mn Oxide Coatings in Stream Sediment Geochemical Surveys,
W76-03412 9-07 5B

POPEL, F.
Thermophilic Bacterial Oxidation of Highly Concentrated Substrates,
W76-01380 9-03 5D

POPESCU-MARINESCU, V.
A Study of the Zooplankton from the Danube Mouth and From the Predelta Area During 197 (In German),
W76-07301 9-14 5C

POPKIN, B. P.
Hydrologic Aspects of Land-Use Planning a Tumamoc Hill, Tucson, Arizona,
W76-02245 9-05 4A

POPLE, K. N.
$10-Million Aggregate Plant Recycles Proces Water,
W76-12414 9-23 5D

POPOV, B. V.
Statistical Probability Characteristics of the Ac cumulation of Radionuclides in Freshwate Plants, (In Russian),
W76-13189 9-24 5A

POPOV, E. G.
A Snowmelt Runoff Model and its Applicatio to Short-Range Forecasting of Floo Discharges,
W76-12440 9-23 2C

POPOV, K.
New Method for the Purification of Industria Effluents Containing Sulfides, Polysulfides Methyl Mercaptan, Dimethyl Sulfide, an Dimethyl Disulfide, By Catalytic Degradatio With Reducing Iron,
W76-02476 9-05 5D

POPOV, KH.
Purification of Strongly Polluted Effluents o the Pulp Industry by Raney Catalyst (Prechistvane na silno zam'rseni otpad'chn vodi ot tseluloznata promishlenost chrez Ranei katalizatori),
W76-02508 9-06 5D

POPPER, D.
Some Aspects of Recolonization of Cora Rocks in Eilat (Gulf of Aqaba) by Fish Popula tions After Poisoning,
W76-10058 9-19 5C

PORCELLA, D. B.
Comparison of Semi-Continuous and Continu ous Flow Bioassays,
W76-06705 9-13 5C

Ecosystem Modeling,
W76-09645 9-18 5C

Effects of Temperature on Oil Refinery Wast Toxicity,
W76-03786 9-08 5C

Effects of Temperature on Oil Refinery Wast Toxicity,
W76-12711 9-24 5C

Naturally Occurring Organic Compounds an Algal Growth in a Eutrophic Lake,
W76-05253 9-11 5C

Nitrogen Cycling in Microcosms and Applica tion to the Biology of the Northern Arm of th Great Salt Lake,
W76-11778 9-22 5C

Nutrient Dynamics and Gas Production i Aquatic Ecosystems: The Effects and Utiliza

n of Mercury and Nitrogen in Sediment-
ter Microcosms,
6-05246 9-11 5C

liment-Water Microcosms for Assessment
Nutrient Interactions in Aquatic
systems,
6-06707 9-13 5C

GES, R.
stes from the Poultry Processing Industry,
6-08292 9-16 3E

RICELLI, J. D.
Analysis of Oil Outflows Due to Tanker Ac-
ents,
6-09313 9-17 5B

antitative Estimates of Petroleum to the
eans
6-05137 9-11 5B

ROZZI, E.
logical Treatment by a System of Activated
dge Applied to the Effluent Waters of a
rugated Board Plant,
6-05713 9-12 5D

logical Treatment of Wastewaters in a Card-
rd Manufacturing Plant (Trattamento
logico delle acque di scarico di un car-
ificio),
6-00128 9-01 5D

luence of Temperature on Biological Purifi-
ion of Paper Mill Effluent (Influenza della
peratura sulla depurazione biologica di un
luo di cartiera),
6-05700 9-12 5D

SCH, R.
thod of Operating a Purifying Plant and
k for Practicing Said Method,
6-09873 9-18 5D

TER, J. J.
mplete Reuse of Textile Dyeing Wastes
ocessed with Dynamic Membrane Hyperfil-
ion,
6-02312 9-05 5D

o Discharge as Exemplified by Textile Dye-
and Finishing,
6-12421 9-23 5D

TER, K. R.
xicity of Mine Drainage to Embryonic and
val Boreal Toads (Bufonidae: Bufo Boreas),
6-09115 9-17 5C

TER, L. K.
lution Abatement from Cattle Feedlots in
rtheastern Colorado and Nebraska,
6-02762 9-06 5D

TER, R. A.
plications of Microwaves to Remote Sensing
Terrain,
6-04314 9-09 7B

TER, R. L.
ysicochemical Approach to Water and
stewater Filtration,
6-02873 9-06 5D

TER, W. P.
deling the Effects of Temperature Changes
the Ecology of the Garter Snake and
pard Frog,
6-03495 9-07 5C

PORTMANN, J. E.
Disposal of Sewage Sludge to Sea; United Kingdom Experience and Practice,
W76-05085 9-11 5E

PORTNEY, P. R.
Voting, Cost-Benefit Analysis, and Water Pollution Policy,
W76-11166 9-21 5G

POSEDLY, J. E.
Well Cuttings Analysis in Ground-Water Resources Evaluation,
W76-13036 9-24 8G

POSKITT, T. J.
Dynamic Behavior of Box-Girder Jetties,
W76-07208 9-14 8A

POSSELT, G.
Example for Regional Planning of Water Quality in Denmark (Beispiel Einer Regionalen Planung der Gewaesserqualitaet in Daenemark),
W76-12918 9-24 5G

POSSELT, H. S.
Removal of Cadmium from Waters and Wastes by Sorption on Hydrous Metal Oxides for Water Treatment,
W76-00107 9-01 5D

POSSON, D. R.
Chemical Quality of Ground Water in the Northern Part of the Albuquerque-Belen Basin, Bernalillo and Sandoval Counties, New Mexico,
W76-03394 9-07 5B

POST, A.
Preliminary Hydrography and Historic Terminal Changes of Columbia Glacier, Alaska,
W76-06449 9-13 7C

The Tilted Forest: Glaciological-Geologic Implications of Vegetated Neoglacial Ice at Lituya Bay, Alaska,
W76-11423 9-21 2C

POST, D. F.
Percolation Tests for Septic Tank Suitability in Southern Arizona Soils,
W76-10248 9-19 5D

POST, J.
Nitrogen Cycling in Microcosms and Application to the Biology of the Northern Arm of the Great Salt Lake,
W76-11778 9-22 5C

POST, R. F.
Federal Environmental Impact Statements--A Case Study,
W76-06557 9-13 6G

POSTINIKOV, A. N.
Method for Computing Evaporation During the Snow Melting and Flood Period in the Central Chernozem Regions of the European USSR,
W76-06407 9-13 2D

POTASH, M.
Materials Budgets of Lake Champlain,
W76-09756 9-18 5A

POTGIETER, H. G. J.
The Recovery of Fe, Mn and Al from a Mine Water Effluent,
W76-03312 9-07 5G

POTHMANN, D.
Considerations Regarding Operation of Paper Mills Without Effluents (Gedanken zum abwasserlosen Betriev von Papierfabriken),
W76-00056 9-01 5D

POTTER, D. S.
Plankton Micro-Fossils as Indicators of Paleotrophic Dynamism in Flathead Lake,
W76-04235 9-09 5C

POTTER, D. W. B.
A Study of the Benthic Macro-Invertebrates of a Shallow Eutrophic Reservoir in South Wales with Emphasis on the Chironomidae (Diptera); Their Life Histories and Production,
W76-06747 9-13 5C

POTTER, H. R.
Interactions Between Land Use and Urban Water Resources Planning,
W76-11130 9-21 4A

Systematic Development of Methodologies in Planning Urban Water Resources for Medium Size Communities: Population Characteristics and Residential Water Use,
W76-11177 9-21 6B

POTTER, I. C.
The Ecology of Algae in the Moruya River, Australia,
W76-12934 9-24 5C

POTTER, J. M.
Portable Floating Wave Tripper,
W76-10954 9-20 8B

POTTER, R. W.
Bibliography of Studies on the Density and Other Volumetric Properties for Major Components in Geothermal Waters, 1928-1974,
W76-06454 9-13 4B

POULIN, A. O.
Significance of Surface Temperature in the Thermal Infrared Sensing of Sea and Lake Ice,
W76-05391 9-11 7B

POULIN, V. A.
Movements and Growth of Arctic Grayling (Thymallus Arcticus) and Juvenile Arctic Char (Salvelinus Alpinus) in a Small Arctic Stream, Alaska,
W76-12756 9-24 5C

POULOS, H. G.
Effect of Seepage on Embankment Deformations Due to Water Loading,
W76-12188 9-23 4A

POULOVASSILIS, A.
The Hysteresis in the Relationship Between Hydraulic Conductivity and Soil Water Content,
W76-03754 9-08 2G

POUND, C. E.
Costs of Wastewater Treatment by Land Application,
W76-09774 9-18 5D

Design Seminar for Land Treatment of Municipal Wastewater Effluents. Design Factors, Part I,
W76-02185 9-05 5D

Land Application Practices and Design Criteria,
W76-11233 9-21 5D

Land Treatment of Municipal Wastewater,
W76-11207 9-21 5D

POUND, C. E.

Treatment of Municipal Wastewater by Land Application,
W76-00203 9-01 5E

POUNDER, B.
Wildfowl and Pollution in the Tay Estuary,
W76-11714 9-22 5C

POUNDER, E. R.
The Specific Heat of Saline Ice,
W76-07776 9-15 2C

POUSTIS, J.
Contribution to the Study of Storm Water in Urban Environment (Contribution A L'etude Des Eaux De Ruissellement En Milieu Urbain),
W76-11637 9-22 5A

POWELL, G. M.
Design Seminar for Land Treatment of Municipal Wastewater Effluents. Design Factors, Part II,
W76-02186 9-05 5D

POWELL, J. E.
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W76-05425 9-11 2E

POWELL, R.
Phosphorus in the Rural Ecosystem--Runoff From Agricultural Land,
W76-01017 9-03 5B

POWELL, T.
Vertical Patterns of Eddy Diffusion During Stratification in Castle Lake, California,
W76-02414 9-05 2H

POWER, G.
The Influence of Fish on the Distribution of Chaoborus spp. (Diptera) and Density of Larvae in the Matamek River System, Quebec,
W76-00993 9-02 2H

POWER, J. F.
Water use by Dryland Corn as Affected by Maturity Class and Plant Spacing,
W76-13124 9-24 3F

POWERS, J. E.
Critical Variables in Food-Item Population Dynamics in a Waste-Water Aquaculture System,
W76-03572 9-08 3C

POWERS, P. W.
How to Dispose of Toxic Substances and Industrial Wastes,
W76-11368 9-21 5E

POWERS, W. L.
Disposal of Beef Feedlot Wastes onto Land,
W76-07184 9-14 5D

Effects of Application Rate in Direct Land Disposal of Animal Wastes,
W76-00443 9-01 5E

Present Knowledge on the Effects of Land Application of Animal Waste,
W76-07199 9-14 5D

Summary of Kansas' Experience with Liquid Waste Spreading,
W76-03988 9-08 5E

Treatment and Ultimate Disposal of Cattle Feedlot Wastes,
W76-01876 9-04 5D

Use of Cattle Feedlot Runoff in Crop Production,
W76-03559 9-08 3C

POXSON, D.
Feasibility of Regional Utilities for Management of Industrial and Municipal Wastes,
W76-05003 9-11 5G

POYTHRESS, M. H.
Extended Aeration in a Combined Wastewater Treatment Plant,
W76-11373 9-21 5D

POZDNYAKOVA, L. E.
Variations in the Hydrochemical Regime of the Coastal Waters in Winter Influenced by Macrophytes, (In Russian),
W76-03305 9-07 5C

PRABHAKARA, C.
Study of the Lower Stratospheric Thermal Structure and Total Ozone from Nimbus-4 IRIS,
W76-12184 9-23 2B

PRAGAY, D. A.
Pollution Control and Suggested Disposal Guidelines for Clinical Chemistry Laboratories,
W76-05097 9-11 5G

PRAHACS, S.
Colour Measurement of Pulp Mill Effluents,
W76-09296 9-17 5A

Detoxification and Decolorization of Kraft Pulp Mill Effluents using Activated Carbon,
W76-09298 9-17 5D

PRAKASAM, P.
Partially Penetrating Well in a Confined Aquifer,
W76-00400 9-01 8B

PRAKASAM, T. B. S.
Evaluation of Methods for the Analysis of Physical, Chemical and Biochemical Properties of Poultry Wastewaters,
W76-00442 9-01 5D

Inhibition of Nitrification by Ammonia and Nitrous Acid,
W76-11197 9-21 5D

Nitrifying Organism Concentration and Activity,
W76-12647 9-23 5D

A Technique for Estimating Active Nitrifying Mass and its Application in Designing Nitrifying Systems,
W76-06296 9-13 5A

PRAKASH, A.
Land Drainage as a Factor in 'Red Tide' Development,
W76-07616 9-15 5C

Radial Dispersion Through Adsorbing Porous Media,
W76-08512 9-16 5B

PRANCE, N.
Algal Communities in Polluted Rivers of South Wales,
W76-09107 9-17 5C

PRANCE, N. B.
A Continuous Flow Apparatus for the Culture of Filamentous Green Algae,
W76-06244 9-13 5C

PRANGE, C. J.
Mobile Sewer Cleaning Machine,
W76-08973 9-17 8

PRANGE, W.
Investigations Concerning Mapping and Classifying of Marsh Soils, (In German),
W76-12814 9-24 2

PRASAD, S.
Endemic Fluorosis in Punjab: I. Skeletal Aspect,
W76-12500 9-23 5

PRATISHTHANANDA, S.
Optimization of Water Allocation, Wastewater Treatment, and Reuse Considering Non-Linear Costs, Seasonal Variations, and Stochastic Supplies,
W76-02636 9-06 5

PRATT, D. A.
A Review of the Potential Applications of Remote Sensing Techniques to Hydrogeological Studies in Australia,
W76-02534 9-06 7

PRATT, G. L.
System Components to Separate Solids and Liquids,
W76-11036 9-20 5

PRATT, P. F.
Bulk Density Sampler for Deep Soil Profiles,
W76-06171 9-13 7

Nitrate Concentrations in Deep Soil Cores Related to Soil Profile Characteristics,
W76-00726 9-02 5

Rate of Chloride and Water Movement Southern California Soils,
W76-08545 9-16 2

Water Quality in Irrigated Watersheds,
W76-08679 9-16 5

PREBLE, D. M.
The Potential Impact of Satellite Data-Relay Systems on the Operation of Hydrologic Data Programs,
W76-11497 9-21 7

PRECODA, N.
Left Behind--Soviet Mine Wastes,
W76-05437 9-11 5

PREFER, E. H.
Polyethylene Pipe Insertion Rehabilitates Old Sewers,
W76-09459 9-18 8

PRENDIVILLE, P. W.
Design of Water Treatment Facilities,
W76-03438 9-07 5

PRENGLE, H. W. JR.
Method of Destroying Cyanides,
W76-03517 9-08 5

Ozone-Based System Treats Plating Effluents
W76-04039 9-09 5

Ozone/UV Process Effective Wastewater Treatment,
W76-04033 9-09 5

Ozone with Ultraviolet Light Provides Improved Chemical Oxidation of Refractory Organics,
W76-07742 9-15 5

NTICE, E. F.
sh Diversion Systems and Biological Investigation of Horizontal Traveling Screen odel VII,
76-08648 9-16 8I

echanical Operation of Horizontal Traveling reen Model VII,
76-08649 9-16 8I

ertical Traveling Fish Basket Collector,
76-08650 9-16 8I

PEJCHAL, W.
ody-Temperature Characteristics of Fish at a hermal Discharge on Lake Michigan,
76-03469 9-07 5C

haracteristics of Temperature-Sensitive Fish gs Used in 1974,
76-05897 9-12 5C

evelopments in Underwater Radiotelemetry d Preliminary Fish Tracking in Thermal umes,
76-05893 9-12 5C

ischarge Residence of TLD Tagged Fish,
76-05898 9-12 5C

ffects of Season, Location, and Discharge ype on Fish Distribution and Density in Thermal Plumes,
76-05896 9-12 5C

ish Behavior at a Thermal Discharge into ake Michigan,
76-02012 9-05 5C

igratory Behavior of Fish Tagged at a uclear Power Plant Discharge Into Lake ichigan,
76-11281 9-21 2H

SCOTT, G. C. JR.
round-Water Favorability and Surficial eology of the Machias-Lubec Area, Washingon County, Maine,
76-02151 9-05 7C

SLEY, B. J.
urvival and Chloride Ion Regulation of the orcelain Crab Petrolisthes Armatus Exposed Mercury,
76-02328 9-05 5C

SSER, T. S.
hemical Characteristics of the Major Thermal prings of Montana,
76-12293 9-23 2K

SSMAN, M.
emoval of f2 Virus From River Water by rmy Water Purification Units,
76-00251 9-01 5F

STON, E. H.
Critical Study of Flood Protection Planning the Susquehanna River Basin: 1936-1972,
76-08846 9-17 6F

STON, E. M.
Computer Simulation of Competition Among ive Sympatric Congeneric Species of Xanthid rabs,
76-10124 9-19 2L

STON, J. C.
ommunity Response to the Flood Disaster rotection Act of 1973,
76-06810 9-14 6F

PRETTYMAN, R. W.
Removal and Recovery of Ammonia from Anaerobic Digester Supernatant,
W76-11260 9-21 5D

PREUSS, F. R.
Wastewater Treatment in Small Textile Finishing Plants a Procedural System. (Abwasserbehandlung in Kleineren Textilveredlungsbetrieben--Ein Verfahrenssystem),
W76-07747 9-15 5D

Ways to an Economic Water Use Demonstrated by the Example of a Small Cotton Dyeing Plant (Wege Zur Wirtschaftlichen Wasserverewendung am Biespiel Einer Kleinen Baumollfaerberei),
W76-02804 9-06 5D

PREUSSER, G.
Process for Decontaminating Sewage Containing Cyanide,
W76-10203 9-19 5D

PREWITT, L. R.
Evaluation of Dairy, Beef and Swine Waste Handling Systems,
W76-07171 9-14 5D

PRIBYL, J.
Paleohydrology of the Caves in the Moravsky Kras (Moravian Karst),
W76-00394 9-01 2F

PRICE, D.
Summary Appraisals of the Nation's Ground-Water Resources-Upper Colorado Region,
W76-00662 9-02 2F

PRICE, L. C.
Aqueous Solubility of Petroleum as Applied to its Origin and Primary Migration,
W76-06455 9-13 4B

PRICE, M.
Cedar Creek at Cedartown, Georgia--Flood Flow Characteristics at Bridge Site of Georgia Avenue Relocation (Supplement to Open-File Report 75-46),
W76-00084 9-01 4A

Groundwater Conditions in the Penrith Sandstone at Cliburn, Westmorland,
W76-00309 9-01 4B

Water Supplies from Ulster Valley Gravels,
W76-12524 9-23 4B

PRICE, N. B.
Areal and Seasonal Variations in the Chemistry of Suspended Particulate Matter in a Deep Water Fjord,
W76-08829 9-17 2L

PRICE, R. C.
River Basin Planning - Basic Concepts for Decision Analysis and Planning for Gradual Expansion of the Information Base,
W76-07133 9-14 4A

PRICE, W. A.
Time Growth of Tidal Dunes in a Physical Model,
W76-10424 9-19 2L

PRICKETT, T. A.
Modeling Techniques for Groundwater Evaluation,
W76-06413 9-13 2F

PRIHAR, S. S.
Effect of Depth and Salinity of Ground Water on Evaporation and Soil Salinization,
W76-06036 9-12 2D

Growth Response of Crops to Depth and Salinity of Ground Water, and Soil Submergence. I. Wheat (Triticum aestivum L.),
W76-00156 9-01 3C

PRIMACHENKO, A. D.
Seston of the Kiev Water Reservoir and Quantitative Ratios of Its Components, (In Russian),
W76-12302 9-23 5C

PRINGLE, B. H.
Water Reuse in the United States,
W76-10260 9-19 5D

PRITCHARD, J. A.
Determination of Snow Depth and Snow Extent from NOAA 2 Satellite Very High Resolution Radiometer Data,
W76-06383 9-13 2C

PROBER, R.
Differential-Bed Study of Cyanide Treatment with Activated Carbon,
W76-05494 9-11 5D

Interaction of Activated Carbon with Dissolved Oxygen,
W76-07015 9-14 5D

A Simulation Model for Phosphorus Waste Discharges in the Lake Erie Basin,
W76-11317 9-21 5B

PROBSTEIN, R. F.
New Technologies in Water Purification and Their Application to Arid Lands,
W76-09481 9-18 3A

The Role of Desalting and Brackish Water Resources in the Arid Regions of the Americas,
W76-13133 9-24 3A

PROCHAZKA, H.
Biomass -- A Product of Biological Purification of Pulping Effluents as Feed for Poultry (Biomasa -- produkt biologickeho cisteni odpadnich vod po vyrobe celulozy -- jako krmivo pro drubez),
W76-02515 9-06 5E

PROCOPIOU, J.
Mobilization of Nutrients in Soil by Acids of Sulfur and Chelating Agents,
W76-10316 9-19 5B

PROCTOR, P. D.
Heavy Metal (Cu, Pb, Zn, Cd, Ni, As, Hg) Additions to Surface Waters, Streams Sediments and Selected Aquatic Life in the Meramec Park Reservoir Drainage Basin, Missouri,
W76-01686 9-04 5B

PROCTOR, R.
Abundance of Macrocrustaceans in a Natural Marsh and a Marsh Altered by Dredging, Bulkheading, and Filling,
W76-08435 9-16 5C

PROFFITT, M. A.
Effects of Thermal Effluents on Fish and Invertebrates,
W76-02018 9-05 5C

PROKES, M.
Oxygen consumption in the Brown Trout, Salmo Trutta M. Fario L,
W76-00283 9-01 2I

PROKHORYCHEVA, N. P.
Radioactive Contamination of commercial Hydrobionts of the Western Basin,
W76-06894 9-14 5C

PROKOPENHO, A. A.
Experience with the Use of Protococcus Algae for the Purification of Waste Waters Generated in Starch Production (Opyt primeneniya protokokkovykh vodorosley dlya ochistki stochnykh vod krakhmal 'nogo proizvodstva),
W76-03084 9-07 5D

PROKSCH, E.
Application of a 500 Kev Electron Accelerator to the Continuous Irradiation of Liquids, Especially Waste Waters (Anwendung Eines 500-Kev-Elektronenbeschleunigers Zur Kontinuierlichen Bestrahlung Von Fluessigkeiten, Insbesondere Abwaessern),
W76-06957 9-14 5D

PROPP, L. N.
Significance of Vitamine B12 in Marine Biocenoses, (In Russian),
W76-02719 9-06 5A

PROSDOCIMO, G.
Water Line,
W76-05541 9-12 3F

PROSKURYAKOVA, A. M.
Blood Sucking Diptera of the Vicinity of Abakan (Khakass Autonomous Oblast of Krasnoyarsk Krai): I. The Specific Composition and Breeding Places of Culicidae, (In Russian),
W76-07988 9-15 5G

PROSSER, C. L.
Thermal Transitions of Collagen From Fish Recovered From Different Depths,
W76-12760 9-24 5C

PROUSE, N. J.
Effects of Low Concentrations of Oil Accommodated in Sea Water on the Growth of Unialgal Marine Phytoplankton Cultures,
W76-08440 9-16 5C

PROVINI, A.
Prediction of the Effects of the Floodwater of the Olona River in Ticino (Previsioni Sugli Effetti Della Immissions Delle Acque Di Piene Dell' Olona in Ticino),
W76-01447 9-03 4A

PROWSE, D. R.
An Assessment of Nuclear Power Plant Waste Heat Utilization for Freshwater Fish Farming,
W76-12682 9-24 5C

PRUDNIKOV, A. D.
Dependence of Pasture Grass Yield on Soil Moisture Level, (In Russian),
W76-09930 9-18 4A

PRUITT, W. O.
Irrigating Corn and Grain Sorghum with a Deficient Water Supply,
W76-08544 9-16 3F

Water Production Functions and Predicted Irrigation Programs for Principal Crops as Required for Water Resources Planning and Increased Water Use Efficiency,
W76-12236 9-23 3F

PRUPPACHER, H. R.
A Numerical Investigation of the Efficiency with Which Simple Columnar Ice Crystals Collide with Supercooled Water Drops,
W76-04679 9-10 2B

PRUSAKOV, V. M.
Determination of the Conditions of Discharge of Sewage into Waters, (In Russian),
W76-12266 9-23 5G

PRYCH, E. A.
Water Quality Model of a Salt-Wedge Estuary,
W76-13063 9-24 5B

PRYOR, R. L.
Final Report--Determining Feasibility of Alternative Approaches of Obtaining Solid-Dry Brine Effluent from Desalination Plants at Inland Locations,
W76-03152 9-07 3A

PSHENICHNAYA, L. I.
Seston of the Kiev Water Reservoir and Quantitative Ratios of Its Components, (In Russian),
W76-12302 9-23 5C

PUEL, D.
Incineration at Sea of Liquid Chlorinated Residues (In French),
W76-06746 9-13 5E

PUENT, S. K.
Development of Buoy Mounted Hydrocarbon Vapor Sensors for Use in Local Area Pollution Surveillance Systems,
W76-11930 9-22 5A

PUESCHEL, R. F.
Formation of Cloud and Ice Nuclei by the Combustion of Crude Oil,
W76-01857 9-04 2B

Recent Developments in Chemical Aerosol Analysis,
W76-10910 9-20 5A

PUGACHEV, P. G.
Dynamics of the Annual Growth of Pinus Sylvestris L. in the Turgai Valley in Connection with Climatic Factors, (In Russian),
W76-07984 9-15 2I

PUGH, C. A.
Outlet Works for Beltzville Dam, Pohopoco Creek, Pennsylvania; Prototype Tests,
W76-07461 9-15 8B

PUGH, K. P.
Microbial Interaction with Oil in the Marine Environment,
W76-11015 9-20 5C

PUI, CHIN-POH
Determination of Iron (III) in Mineral Samples by Titration with Edta and a Coated-Wire Ion-Selective Indicator Electrode,
W76-02894 9-06 5A

PULAWSKI, B.
Groundwater Study of a Volcanic Area Near Bandung, Java, Indonesia,
W76-05914 9-12 4B

PULKKINEN, E.
Purification of Waste Water By Polymer Exchangers (Jatevesien puhdistaminen polymeerivaihtajilla),
W76-09675 9-18 5D

PULLEN, E. J.
Abundance of Macrocrustaceans in a Natural Marsh and a Marsh Altered by Dredging, Bulkheading, and Filling,
W76-08435 9-16 5C

PULLIN, J.
Maintenance of Water Quality,
W76-01735 9-04 5G

PUNTENNEY, J. L.
Fast Replacement of a Flood-Damaged Interceptor,
W76-08240 9-16 8F

PURA, G.
The Hygienic Quality of the Water in a Growing-Finishing Piggery, (In Romanian),
W76-09883 9-18 5B

PURCUPILE, J. C.
Food from Sewage. It Can Be Done,
W76-02291 9-05 5D

PURDY, K. L.
Characterization of Sulfide Mineral Surfaces in Froth Flotation Systems using Electron Spectroscopy for Chemical Analysis,
W76-10635 9-20 5D

PURDY, R. W.
Michigan's Environmental Control Program and Organization,
W76-00471 9-01 5G

PUROHIT, K. S.
Chamber Method of Subsurface and Drip Irrigation,
W76-01076 9-03 3F

PURTYMUN, W. D.
Evaluation of Yield and Water-Level Relations
W76-04837 9-10 4D

Water Quality in Vicinity of Fenton Hill Site 1974,
W76-06909 9-14 5B

PURVES, J. B.
Stream Sediment Composition: An Aid to Water Quality Assessment,
W76-11367 9-21 5A

PURVIS, M. R.
Aerobic Treatment of Textile Wastes,
W76-04064 9-09 5D

PUSZ, I.
Effects of Activated Carbon Addition to the Activated Sludge Process (Wplyw dodatku wegla aktywnego do procesu osadu Czynnego),
W76-09175 9-17 5D

PUSZTAI, G.
Several Hydrobiological Problems of Ground Water Storage in Metropolitan Water Work (Budapest): I, (In German),
W76-12258 9-23 5B

PUTLAND, G. E.
Measurements of Wind-Driven Flow Profiles in the Top Millimeter of Water,
W76-01260 9-03 2E

PUTNAM, A. L.
Summary of Hydrologic Conditions and Effects of Walt Disney World Development in the Reedy Creek Improvement District, 1966-73,
W76-03908 9-08 4C

PUTT, L. O.
Evaluation of Prior Appropriation in Mississippi,
W76-11336 9-21 6E

PUZATKINA, L. A.
Purification of Waste Waters by Filtration through Finely Dispersed Activated Carbon,
W76-05167 9-11 5D

YREV, S. A.
rification of Waste Water from Paper Indus-
y,
76-06971 9-14 5D

HA, J. J.
teraction of Activated Carbon with Dissolved
xygen,
76-07015 9-14 5D

E, R. D. G.
rban Water Management and Coastal Wet-
nd Protection in Collier County, Florida,
76-07150 9-14 3D

KOWICZ, R. M.
ctivity Coefficients of Bicarbonates and Car-
nates in Seawater,
76-06720 9-13 5C

nization of Water in Seawater,
76-01239 9-03 1A

AM, H.
ountermeasures to Control Oil Spills in
estern Canada,
76-09346 9-17 5G

ARLES, J.
omestic Wastewater Disinfection, Secondary
reatment,
76-10771 9-20 5D

ertilizer Manufacturing Point Source Catego-
y, Urea Subcategory,
76-10764 9-20 5G

ew Source NPDES Permits Preparation of
nvironmental Impact Statements,
76-10757 9-20 6G

oap and Detergent Manufacturing Category
retreatment Standards for New Sources,
76-10759 9-20 5G

Vater Programs Secondary Treatment Infor-
ation,
76-10770 9-20 5D

ARLES, J. R. JR.
he Environment and the Lawyer,
76-06826 9-14 6E

mpact of the Safe Drinking Water Act,
76-05449 9-11 5G

AST, J.
Problems Related to the Renewed Groundwater
Level Rise in Previous Mining Areas as Illus-
rated by the Southern Lusatia Example
Probleme des Grundwasserwiederanstiegs in
Ehemrligen Bergbaugebieten am Beispiel der
Sued-Lausitz),
W76-07663 9-15 5B

AY, P.
Vertical Eddy Diffusion Studies in the Ther-
nocline of a Small Stratified Lake,
W76-04082 9-09 5B

IGG, P. W.
Earth's Hidden Asset, Our Most Valuable
Source of Water is also the Most Vulnerable,
W76-11895 9-22 4B

IGLEY, J.
A Comparison of Decision Making and Ad-
ministrative Organization for Municipal Water
Supplies in Medium-Sized and Small Illinois
Municipalities,
W76-01503 9-04 6E

QUIGLEY, R. M.
Groyne Stabilization of Slope Movements and
Toe Erosion, Lake Huron Near Bayfield, On-
tario,
W76-11290 9-21 8B

QUIJADA, M. L.
Study of the Genus Vibrio in Drinking Water,
(In Spanish),
W76-06731 9-13 5C

QUILBAULT, L. J.
Water Soluble Block Polymers Used as Silt
Control Agents,
W76-02991 9-06 5F

QUILES-MOTTIAUX, J.
Biological Purification of Highly Concentrated
Spent Sodium Sulfite Pulping Liquors (Etude
de l'epuration biologique de lessives residuaires
au sulfite de sodium de forte concentration),
W76-11364 9-21 5D

QUIN, B. F.
Biogeochemical Exploration for Tungsten at
Barrytown, New Zealand,
W76-02893 9-06 5A

QUING, J. G.
Analyses of Hydrocarbons in Marine Organ-
isms: Results of Idoe Intercalibration Exer-
cises,
W76-10398 9-19 5A

QUINLAN, A. V.
Seasonal Characteristics of Water Masses in
Muir Inlet, a Fjord with Tidewater Glaciers,
W76-03112 9-07 2L

QUINLAN, P. M.
Methylene Phosphonates of Glycidyl Reacted
Polyalkylene Polyamines and use in Scale and
Chelation,
W76-05030 9-11 5F

QUINN, F. H.
Lake Huron Beginning-of-Month Water Levels
and Monthly Rates of Change of Storage,
W76-06657 9-13 2H

QUINN, J. G.
Analysis of Hydrocarbons in Marine Organ-
isms: Results of IDOE Intercalibration Exer-
cises,
W76-01901 9-04 5A

Hydrocarbons in the Sargasso Sea Surface
Microlayer,
W76-11710 9-22 5B

Measurements of Phytol in Estuarine
Suspended Organic Matter,
W76-07974 9-15 5A

QUINONES-MARQUEZ, F.
Chemical Composition of Rainfall at Selected
Sites in Puerto Rico,
W76-02135 9-05 2K

QUIRK, T. P.
Scale-up and Process Design Techniques for
Fixed Film Biological Reactions,
W76-00788 9-02 5D

QURESHI, A. A.
A Preliminary Study on the Occurrence and
Distribution of Geofungi in Lake Ontario Near
the Niagara River,
W76-11427 9-21 2H

RAATS, P. A. C.
Distribution of Salts in the Root Zone,
W76-04692 9-10 2I

Transformations of Fluxes and Forces Describ-
ing the Simultaneous Transport of Water and
Heat in Unsaturated Porous Media,
W76-05159 9-11 2F

RABCEWICZ, L. V.
Principles of Dimensioning the Supporting
System for the 'New Austrian Tunnelling
Method',
W76-01281 9-03 8E

RABE, F. T.
Highway and Sewer Impacts on Urban
Development,
W76-02717 9-06 5C

Secondary Impacts of Transportation and
Wastewater Investments: Research Results,
W76-02757 9-06 5C

RABE, F. W.
An Integrated Study on the Impact of Metallic
Trace Element Pollution in the Coeur D'Alene-
Spokane Rivers-Lake Drainage System,
W76-11488 9-21 5C

RABE, J. R.
Viability of Algae in the Digestive Tracts of
Two Cyprinodontids,
W76-04149 9-09 2I

RABE, K. M.
Island Barrier Effects on Sea State as Revealed
by a Numerical Wave Model and DMSP Satel-
lite Data,
W76-09559 9-18 2L

RABL, V.
Chromatographic Determination of DMA and
DMF in Aqueous Medium,
W76-06390 9-13 5A

RACHLIN, J. W.
Growth Response of the Green Algae Chlorella
Vulgaris to Selective Concentrations of Zinc,
W76-03307 9-07 5C

RACHYUNAS, L. A.
Hydrobiological Condition in the Reservoir-
Cooler of the Lithuanian State Regional Elec-
tric Power Station, (In Russian),
W76-07944 9-15 5C

RACICOTT, J. G.
Blood and Liver Enzymes in Rainbow Trout
(Salmo Gairdneri Rich) with Emphasis on Their
Diagnostic use: Study of CC14 Toxicity and a
Case of Aeromonas Infection,
W76-03034 9-07 5C

RADA, E. L.
Irrigation Efficiency in the Production of
California Crop Calories and Proteins,
W76-10875 9-20 3F

RADCENKO, I.
Drainage Runoff of the Groundwater Unsteady
Flow to the Drains (Drenazny Odtok Pri
Neustalenom Prudeni Podzemnej Vody K
Drenom),
W76-08239 9-16 4B

RADECKI, M. R.
Concentration of Brewery Spent Grain Liquor
Using a Submerged Combustion Evaporator,
W76-04744 9-10 5D

RADES, D. L.
The Benthos of Pictou Harbor and Northum-
berland Strait, Canada -- A Measure of the Im-
pact of Treated Kraft Pulp Mill Effluent,
W76-09294 9-17 5C

RADIONOVA, L. F.
Some Data on Comparative Evaluation of Radioactive and Chemical Pollution Factors in Freshwater Reservoirs,
W76-06886 9-14 5B

RADKE, L. F.
Cascade Atmospheric Water Resources Program, Volume I,
W76-06600 9-13 3B

Cascade Atmospheric Water Resources Program, Volume 2,
W76-06601 9-13 3B

Cascade Atmospheric Water Resources Program, Volume 3,
W76-06602 9-13 2B

RADNEY, J. C.
Measurement of Zooplankton Biomass by Carbon Analysis for Application in Sound Scattering Models,
W76-01163 9-03 5A

RADOSEVICH, G. E.
Legal Problems and Solutions to Surface-Ground-Water Management,
W76-00180 9-01 6D

Systematic Design of Legal Regulations for Optimal Surface -Groundwater Usage - Phase 2,
W76-06551 9-13 4B

RADUSCH, P.
Process for Decontaminating Sewage Containing Cyanide,
W76-10203 9-19 5D

RADZIUL, J. V.
Analysis of Organic Pollutants in Drinking Water,
W76-11242 9-21 5A

RAFAEL, J.
Device for Damping the Surge of Water Waves Particularly for a Floating Body Designed to Clean Polluted Water,
W76-01731 9-04 5G

RAGADE, R. K.
Metagame Theory and its Applications to Water Resources,
W76-09847 9-18 6A

Political Resolution of Environmental Conflicts,
W76-11129 9-21 6G

RAGAN, J. F.
Public Participation in Water Resources Planning: An Evaluation of the Programs of 15 Corps of Engineer Districts-Summary of Evaluation and Recommendations,
W76-13041 9-24 6E

RAGAN, J. F. JR.
Public Participation in Water Resources Planning: An Evaluation of the Programs of 15 Corps of Engineers Districts,
W76-13042 9-24 6E

RAGAN, R. M.
Dimensionless Inlet Hydrograph Model,
W76-01256 9-03 2A

Use of Satellite Data in Urban Hydrologic Models,
W76-03748 9-08 7B

RAGHAVENDRAN, R.
Synthesis of Basin Response with Inadequate Data,
W76-06675 9-13 2A

RAGOTZKIE, R. A.
Vertical Motions Along the North Shore of Lake Superior,
W76-11311 9-21 2H

RAHMAN, M. A.
High Electrolyte Water for Reclaiming Slowly Permeable Soils,
W76-01077 9-03 2G

RAHN, P. H.
Ground Water Geochemistry of the Pahasapa Limestone,
W76-00375 9-01 2K

Hydrogeology of a Portion of the Sand Hills and Ogallala Aquifer, South Dakota and Nebraska,
W76-01299 9-03 2F

RAHUBKA, E. D.
Corps Urban Planning in St. Louis-Maline Creek: An Interdisciplinary Effort,
W76-00074 9-01 3D

RAINBOW, P. S.
Zinc Phosphate Granules in Tissue Surrounding the Midgut of the Barnacle Balanus Balanoides,
W76-10057 9-19 5C

RAINEY, J. G.
Microbiological Degradation of Phenol in the Effluent from a Wood Treatment Plant,
W76-07744 9-15 5D

RAINEY, S. C.
Systematic Analysis of Field Survey Techniques and Operational Utility of Environmental Research to the Navy,
W76-10356 9-19 5G

RAINEY, W. T. JR.
The Identification of Phthalic Acid Esters in the Tissues of Cyprinodont Fish and Their Activity as Heartrate Depressors,
W76-10344 9-19 5A

RAINS, J. H.
Macrobenthic Population Dynamics in Indiana Waters of Lake Michigan in 1970,
W76-05623 9-12 5C

RAISANEN, K.
Slime Inhibitor for use in Industrial Water Recirculating Systems,
W76-02253 9-05 5D

RAISSI, H.
Wave Response of Offshore Bottomless Harbors,
W76-10417 9-19 8B

RAJAGOPAL, R.
Water Quality and Economic Criteria for Rural Wastewater and Water Supply Systems,
W76-10583 9-20 5D

RAJAGOPALAN, K.
Methane Fermentation of Rubber (Hevea Brasiliensis) Latex Effluent,
W76-08722 9-16 5D

RAJAMANI, V. S.
A New Approach to Public Investment,
W76-04540 9-10 6B

RAJARATNAM, N.
Roughness Effects on Rectangular Free Over fall,
W76-11855 9-22 8I

Swirling Circular Turbulent Wall Jets,
W76-12828 9-24 8I

RAJHI, H. N.
On the Capacity-Expansion of Desalinatio Plants and Storage Tanks,
W76-09618 9-18 3A

RAKHECHA, P.
A Study of Major Rain Storms Over and Nea Mahi Basin up to Kadana Dam Site for th Evaluation of Probable Maximum Desig Storm,
W76-08069 9-15 2I

RAKHMANIN, Y. A.
Hygienic Evaluation of Electrodialysis Wate Desalination Set Up, (In Russian),
W76-12394 9-23 5I

RAKHOV, G. M.
Specific Pollutants in Urban Waste Waters an the Efficiency of their Purificatio (Spetsificheskie zagryazneniya gorodskik stochnykh vod i effektivnost' ikh ochistki),
W76-09002 9-17 5A

Synthetic Surfactants in Urban Effluents an their Rate of Elimination in Biological Waste water Treatment Plants (Sinteticheskie poverkh nostnoaktivnye veshchestva v gorodskik stokakh i effektivnost' ochistki ot nikh n biologicheskoy stantsii),
W76-00351 9-01 5I

RAKHVALOVA, L. F.
Treatment Plants for Removing Helminth from Sewage Before Its Use on Cultivate Pastures, (In Russian),
W76-06795 9-13 5I

RALL, D. P.
New Environmental Health Problems in Wate Supply,
W76-03425 9-07 5I

RALLS, J. W.
In-Plant Hot-Gas Blanching of Vegetables,
W76-04743 9-10 3I

RALSTON, D. R.
Ground-Water Movement Through an Aban doned Tailings Pile,
W76-06952 9-14 5I

The Hydrology of an Acid Mine Problem,
W76-06942 9-14 5C

RALSTON, P. H.
Inhibition of Scale Deposition,
W76-05529 9-12 5I

RAM, K. L.
Economic Analysis of Wheat Production wit Fertilizer Under Adequate and Limiting Irriga tion Water,
W76-03277 9-07 3I

RAMACHANDRA, A.
Systematic Development of Methodologies i Planning Urban Water Resources for Mediun Size Communities: Regional Aquifer Evalua tion Studies with Stochastic Inputs,
W76-11176 9-21 6I

IADE, F.
sticide Pollution and its Ecological Implica-
ns, (In French),
76-07983 9-15 5C

IADURGAIAH, D.
nsteady Flow to a Nonpenetrating Artesian
ell,
76-12445 9-23 2F

IAIN, P.
onstruction and Utilization of Complex
athematical Models in the Planning of the
otimal Development of Large Hydrographic
stems and River Basins,
76-12566 9-23 4A

IAKRISHNA, Y. S.
oisture use Efficiency of Dryland Crops as
fluenced by Fertilizer Use II. Rabi Cereals,
76-10186 9-19 3F

IAMOORTHY, S.
eavy Metal Binding Components of River
ater,
76-03651 9-08 5A

IAMURTHY, V. C.
n Analytical Study of the Role of Various
ctors Causing Red Tide Outbreaks of
richodismium as Deduced from Field and
aboratory Observation,
76-07620 9-15 5C

IAN, V.
echniques for Power Measurement for Sur-
ce Aerator,
76-10251 9-19 5D

IASAMY, J.
olorimetric Determination of Cyanide,
luoride and Sulfate in Water,
76-02568 9-06 5A

IASASTRI, K. S.
gricultural Drought of 1972 Kharif Season,
76-06681 9-13 2B

IDIAL, B. S.
he Social and Economic Importance of the
aroni Swamp in Trinidad and Tabago,
76-12952 9-24 6G

IEY, H. J. JR.
timulation of Geothermal Aquifers,
76-02685 9-06 4B

IIA, S.
alcium Hydroxide (Lime) and the Elimination
f Human Pathogenic Viruses from Sewage:
tudies with Experimentally Contaminated
oliovirus Type 1, Sabin) and Pilot Plant Sam-
es,
76-12931 9-24 5D

IIREZ, E. R.
pparatus and Method for Removing Pollu-
nts from Wastewater,
76-10200 9-19 5D

IIRIZ, R. A. J.
he Relation Between Water Chemistry and
ineral Zonation in the Central City Mining
istrict, Colorado,
76-06955 9-14 5B

MSEIER, R. O.
pplication of Radar Techniques to Ice and
now Studies,
76-05385 9-11 7B

Floating Ice Thickness and Structure Determination--Heated Wire Technique,
W76-00884 9-02 2C

Geophysical Studies of Floating Ice by Remote Sensing,
W76-02954 9-06 2C

Ice Dynamics in the Canadian Archipelago and Adjacent Arctic Basin as Determined by ERTS-1 Observations,
W76-04412 9-09 2C

Ice Thickness Distribution as Inferred from Infrared and Microwave Remote Sensing During the Bering Sea Experiment,
W76-04996 9-10 2C

Mesoscale Description for the Principal Bering Sea Ice Experiment,
W76-04997 9-10 2C

RAMSEY, C. R.
Transformations in Quality of Recharging Effluent in the Santa Cruz River,
W76-02750 9-06 5E

RAMSEY, F. L.
Probability Distributions of Breaking Wave Heights Emphasizing the Utilization of the Jonswap Spectrum,
W76-09721 9-18 2L

RAMSEY, J. S.
Food Habits of the Rough Shiner, Notropis Baileyi Suttkus and Raney, in Halawakee Creek, Alabama,
W76-06126 9-12 2I

RAMSEY, R. H.
Variation of Urban Runoff Quality and Quantity with Duration and Intensity of Storms - Phase III - Volume 1--Dry Weather Flows,
W76-08278 9-16 5B

Variation of Urban Runoff Quality and Quantity with Duration and Intensity of Storms - Phase III, Volume 2, Impacts of Dust Storms,
W76-08279 9-16 2A

Variation of Urban Runoff Quality and Quantity with Duration and Intensity of Storms - Phase III, Volume 3 - Analysis of Flow Models,
W76-08280 9-16 2A

Variation of Urban Runoff Quality and Quantity with Duration and Intensity of Storms - Phase III, Volume 4 - Project Summary,
W76-08281 9-16 5B

RAMSEYER, G. O.
Selective Separations by Reactive Ion Exchange, Part II, Preconcentration and Determination of Complex Iron Cyanides in Waters,
W76-03583 9-08 5A

RAMUSINO, M. C.
The Po River at the Island of Serafini, (In Italian),
W76-09305 9-17 2E

RAND, G. H.
Interaction of Odour and Flow Perception and The Effects of Parathion in the Locomotor Orientation of the Goldfish Carassius Auratus L.,
W76-03030 9-07 5C

RANDALL, A.
How Much to Abate Pollution,
W76-04539 9-10 5G

RANDALL, A. D.
Ground-Water Flow and Pollution at a Well Field, Olean, New York,
W76-11417 9-21 5B

Hydrologic Evaluation of Salinity Control and Reclamation Projects in the Indus Plain, Pakistan--A Summary,
W76-06453 9-13 5G

RANDALL, C. W.
Design Procedure for a Contact Stabilization Activated Sludge Process,
W76-09211 9-17 5D

Estimating Sludge Production Aids in Facilities Design, Part II,
W76-03444 9-07 5D

High-Rate Water Treatment: The State-of-the-Art,
W76-00226 9-01 5F

Process Control by Oxygen-Uptake and Solids Analysis,
W76-03670 9-08 5D

RANDALL, J. M.
Removing Heavy Metal Ions from Water,
W76-04610 9-10 5D

Removing Heavy Metal Ions from Water,
W76-08401 9-16 5D

RANDAZZO, A. F.
Petrographic and Geohydrologic Model of Aquifer Limestones in Florida,
W76-11493 9-21 2F

RANDICH, P. G.
Ground-Water Basic Data for Grant and Sioux Counties, North Dakota,
W76-00653 9-02 7C

RANDOLPH, J.
NEPA's Influence on Federal Water Planning: Part 2, Case Studies of Corps of Engineers' Planning in California,
W76-01801 9-04 6B

RANDOLPH, J. C.
A Land Capability Model for the Lower Lake Monroe Watershed,
W76-02002 9-05 4A

RANE, V. V.
Evaluation of the Aquifer Characteristics of the Basaltic Terrain of Maharashtra in India,
W76-02970 9-06 2F

RANGANATHAN, K. R.
Poliovirus Inactivation by Activated Sludge,
W76-00256 9-01 5D

RANGANNA, G.
How Much Precipitation Goes to Infiltration During a Storm Period,
W76-08339 9-16 2A

RANGEL-GARZA, J.
Irrigation Systems by Trickling,
W76-03505 9-08 3F

RANGO, A.
Applications of Remote Sensing to Watershed Management,
W76-07791 9-15 4A

ERTS-1 Flood Hazard Studies in the Mississippi River Basin,
W76-02033 9-05 7B

RANGO, A.

Extraction and Utilization of Space Acquired Physiographic Data for Water Resources Development,
W76-04953 9-10 4A

Extraction and Utilization of Space Acquired Physiographic Data for Water Resources Development,
W76-07566 9-15 4D

Satellite Snow Observations and Seasonal Streamflow Forecasts,
W76-12468 9-23 2C

Seasonal Streamflow Estimation Employing Satellite Snowcover Observations,
W76-06638 9-13 4A

RANISH, D. R.
Public Opinion and the Environment: Ecology, the Coastal Zone, and Public Policy,
W76-09035 9-17 6G

RANKIN, D.
Phytoplankton Generic Diversity and Biomass Estimates of a Monogahela River Acid Confluence,
W76-12748 9-24 5C

RANKIN, D. L.
The Beneficial Use of Water Resources and Guidelines for Allocation of Water Resources in Times of Emergency,
W76-12045 9-22 6E

RANKIN, J. S.
Thermal Effects on the Microbiology and Chemistry of the Connecticut River-A Summary,
W76-02014 9-05 5C

RANKIN, L. V.
Polymers Solve Waste Water Problems,
W76-07527 9-15 5D

RAO,
Systematic Development of Methodologies in Planning Urban Water Resources for Medium Size Communities: Regional Aquifer Evaluation Studies with Stochastic Inputs,
W76-11176 9-21 6B

RAO, A. M.
Chemical and Microbiological Changes in Poultry Litter Applied to Soil as Influenced by the Time and Method of Application,
W76-10615 9-20 5E

RAO, A. R.
Analysis of the Effects of Urbanization on Runoff Characteristics by Nonlinear Rainfall-Runoff Models,
W76-04507 9-10 2A

RAO, B. S.
A Low Cost Waste Treatment Method for the Disposal of Distillery Waste (Spent Wash),
W76-01626 9-04 5D

Oxidation Ditch Treatment of Anaerobic Lagoon Effluent of Distillery Waste,
W76-04293 9-09 5D

RAO, D. B.
Seepage in Well Systems Near a Barrier Boundary,
W76-00403 9-01 8B

Studies on Numerical Modeling and Modification of Cyclone Scale Precipitation,
W76-13185 9-24 3B

RAO, G.
Titration of Antimony (III) with Cerium (IV) Sulphate and Diphenylamine and its Derivatives as Reversible Indicators,
W76-09040 9-17 5A

RAO, H. S.
Studies on Operations Planning and Control of Water Distribution Systems,
W76-00506 9-02 6A

RAO, K. L.
A Realistic Approach to River Basin Development,
W76-08081 9-15 4A

RAO, M. S.
A Note of Convective Precipitation in Numerical Models,
W76-03372 9-07 2B

RAO, N. S. L.
Theory of Weirs,
W76-06416 9-13 8B

RAO, P. K.
A New Approach to Public Investment,
W76-04540 9-10 6B

RAO, P. S. C.
Field Study of Solute Movement in a Highly Aggregated Oxisol with Intermittent Flooding: II. Picloram,
W76-00718 9-02 5B

RAO, R. A.
Stochastic Models for Ground Water Levels,
W76-01799 9-04 4B

RAO, R. G.
Analysis of the Effects of Urbanization on Runoff Characteristics by Nonlinear Rainfall-Runoff Models,
W76-04507 9-10 2A

Stochastic Models for Ground Water Levels,
W76-01799 9-04 4B

RAO, RAMACHANDRA T.
Breeding Places and Seasonal Incidence of Aedes Aegypti, as Assessed by the Single-Larva Survey Method,
W76-06033 9-12 5G

RAO, T. R.
Salinity Tolerance of Laboratory-Reared Larvae of the California Killifish, Fundulus Parvipinnis Girard,
W76-03039 9-07 5C

RAO, T. S. S.
Distribution of Chaetognatha and Biomass of the Zooplankton in the Western Part of the Tropical Atlantic, During July and August 1968, (In Spanish),
W76-08245 9-16 2L

Ecology of the Zooplankton in the Gulf of Cariaco. Part I: Variability of the Biomass of the Zooplankton During the Period from August to November, 1973, (In Spanish),
W76-08247 9-16 5C

RAOUX, H.
Problem With Disposal of Paper Industry Effluents into the Sea (Probleme du rejet en mer des effluents de papeterie),
W76-04769 9-10 5A

RAPP, A.
Soil Erosion and Sedimentation in Tanzania and Lesotho,
W76-06593 9-13 4D

RAPP, J. B.
Amino Acids and Gases in Some Springs an an Oil Field in California,
W76-08568 9-16 4

RAPP, M.
Evolution of the Cations Involved in Rai Canopy Leachate and Drainage Water throug a Forest Ecosystem, (In French),
W76-11540 9-21 3

RAPPAZ, A.
Apparatus for the Treatment of Liquid Waste
W76-05967 9-12 5

RAPPOPORT, V. V.
Use of Investment Models and Choice of Alte native Decisions for the Optimum Distributio of Water Resources at the Stage of Planning b Means of Computers,
W76-12561 9-23 6

RAPSON, W. H.
The Closed-Cycle Bleached Kraft Pulp Mill,
W76-12417 9-23 5

The Effluent-Free Bleached Kraft Pulp Mi Part VI. Substantial Substitution of Chlori Dioxide for Chlorine in the First Stage Bleaching,
W76-11382 9-21 3

RAQUET, C.
Remote Sensing Study of Maumee River E fects on Lake Erie,
W76-12819 9-24 5

RARIDON, R. J.
Water Research Program, Biennial Progre Report, for the Period March 15, 1962, March 15, 1964, (Oak Ridge National Laborat ry),
W76-04670 9-10

RASCHKE, R. L.
The Relationship Between Substrate Conte Water Quality, Actinomycetes, and Mus Odors in the Broad River Basin,
W76-05478 9-11

RASCON, O. A.
On a Stochastic Model to Estimate Tsuna Risk,
W76-06189 9-13

RASHID, M. A.
Degradation of Bunker C Oil under Differe Coastal Environments of Chedabucto Ba Nova Scotia,
W76-09394 9-17

RASHIDI, A. S.
Characterization and Utilization of Municip and Utility Sludges and Ashes. Volume II - M nicipal Sludges,
W76-00688 9-02

RASHO, J.
Chicago's Switch to Free Chlorine Residuals,
W76-00236 9-01

RASIN, V. J. JR.
Biochemical Studies of Entrained Phytoplan ton at the Morgantown Maryland Power Plan
W76-08642 9-16

RASKIN, B. M.
Characteristics of Boats as Sources of Sea P lution, (In Russian),
W76-13191 9-24

IN, I. E.
Conceptual Framework for Research on the t-Effective Allocation of Federal ources,
6-04538 9-10 6B

IUSEN, H. J.
plified Optimization of Water Supply tem,
6-07144 9-14 4A

IUSSEN, L. A.
drology of the North Cascades Region, shington: 1. Runoff, Precipitation, and rage Characteristics,
6-08059 9-15 2A

drology of the North Cascades Region, shington: 2. A Proposed Hydrometeorologi- Streamflow Prediction Method,
6-08060 9-15 2A

IUSSEN, W. O.
plications of Finite Element and Computer aphics Techniques in Aquifer Analysis,
6-04931 9-10 2F

asibility of Modelling the Influences of Pit charge on Groundwater Levels and Quality Alluvial Basins,
'6-11487 9-21 2F

IUSSON, E. M.
e Atmospheric Budgets Program of IFYGL,
'6-11436 9-21 2H

SASHKO, I. F.
mary Production and Biotic Balance of nkton in the Northeastern Part of the Amur y, (In Russian),
'6-11576 9-21 5C

SOLOVA, V. P.
gienic Problems of the Design, Construction l Operation of Group Water Supply stems, (In Russian),
'6-02477 9-05 5B

TOGI, A. K.
ediction of Flow Development on Spillways,
'6-01255 9-03 8B

WAN, S.
Characteristic of the Lakes of the Leczyn-o-Wlodawskie Lake District Based on iotic Environmental Factors, (In Polish),
'6-07943 9-15 5C

'KOVA, T. N.
ytoplankton Distribution in the Vicinity of e Peru Current Near 8 Degrees S. Latitude, Russian),
'6-09283 9-17 5B

CLIFF, T.
boratory and Field Tests of Temperature lerance on Gambusia A. Affinis, the Western osquitofish,
'6-08798 9-17 5C

H, A.
Identification Approach to Subsurface ydrological Systems,
'6-05688 9-12 2F

H, P. H.
ocess Wastewater: Reclamation or Disposal,
'6-11376 9-21 5D

RATHBUN, R. E.
Determination, Storage, and Preservation of Low Molecular Weight Hydrocarbon Gases in Aqueous Solution,
W76-09834 9-18 2K

A Stochastic Model for Predicting the Probability Distribution of the Dissolved-Oxygen Deficit in Streams,
W76-12276 9-23 5B

RATHMANN, F.
The Oxidation of Uric Acid by Iodine in Aqueous Solution,
W76-02632 9-06 5B

RATKOWSKY, D. A.
Mercury in Fish in the Derwent Estuary, Tasmania, and its Relation to the Position of the Fish in the Food Chain,
W76-00871 9-02 5A

RATPAN, M. M.
Hygienic Assessment of Certain Surface-Active Substances-The Components of Effluents from Textile Industry Enterprises (Gigiyenicheskaya otsenka nekotorykh poverkhnost-noaktivnykh veshchestv-kompnentov stochnykh vod predpriyatiy tekstil'noy promyshlennosti),
W76-05342 9-11 5A

Hygienic Evaluation of Certain Surface-Active Substances, Components of Effluents from Textile Industry Enterprises, (In Russian),
W76-12314 9-23 5A

RATTRAY, M. JR.
Measurement of Internal Waves of Tidal Frequency Near a Continental Boundary,
W76-02710 9-06 2L

RAUH, T.
The Development Criteria of the Preliminary Coastal Plan,
W76-13092 9-24 2L

RAUNOR, G. S.
Aerosol Production from Land Application of Wastewater by Agricultural Irrigation Equipment,
W76-10625 9-20 5D

RAUSCH, D. L.
Controlling Reservoir Trap Efficiency,
W76-06682 9-13 8B

RAUSCHKOLB, R. S.
Infiltration of Organic Phosphate Compounds in Soil,
W76-06170 9-13 5B

RAUSSER, G. C.
Investment Sequencing, Allocation, and Learning in the Design of Water Resources Systems: An Empirical Application,
W76-09846 9-18 6A

RAVAN, F. E.
Public Participation in Water Pollution Control,
W76-03835 9-08 5G

RAVEH, A.
The Control of Nitrate Accumulation in Soils by Induced Denitrification,
W76-00732 9-02 5B

RAVELO, C. J.
Trickle and Sprinkler Irrigation of Grain Sorghum,
W76-13003 9-24 3F

RAVENSCROFT, B. D.
Total Oxygen Demand,
W76-05056 9-11 5A

RAVOIRE, J.
Apparatus for the Prevention of Scaling in Desalination Apparatus,
W76-13154 9-24 3A

RAWLENCE, D. J.
Lake Ellesmere, Canterbury, New Zealand: A Review of the Lake and its Catchment,
W76-06762 9-13 5C

RAWLINGS, D. E.
The Effect of Manganese and Neutralisation on the Removal of Sulphide and Oxygen Demand in Fellmongery Effluent,
W76-04770 9-10 5D

An Experimental Study of the Removal of Sulphide in the Aeration of Fellmogery Effluent,
W76-04772 9-10 5D

Recent Developments in Tannery Effluent Disposal,
W76-12425 9-23 5D

RAWLINS, S. L.
Salinity-Ozone Interactive Effects on Alfalfa Yield and Water Relations,
W76-06269 9-13 3C

RAWLS, W. J.
Snow: Nature's Reservoir,
W76-02412 9-05 2C

RAWSON, J.
Water-Quality Records for Selected Reservoirs in Texas, 1972-73 Water Years,
W76-00086 9-01 7C

RAY, J. P.
Environmental Effects of Drilling Muds and Cuttings,
W76-00411 9-01 5C

RAY, M. W.
Sludge Control and Decant System,
W76-09419 9-18 5D

RAY, S. M.
Growth and Mortality of Two Groups of Oysters, (Crassostrea Virginica Gmelin), Maintained in Cooling Water at an Estuarine Electric Power Generating Station,
W76-12726 9-24 5C

RAY, W.
Nitrates: What's Happening in Britain,
W76-09451 9-18 5D

RAYEV, M. D.
Problems of Calculating the Thermal Radiation of Multilayered Structures of the Ice and Snow Types by Means of Oriented Graphs Using an Electronic Computer,
W76-04324 9-09 2C

RAYMAHASHAY, B. C.
Color Removal by Clays, Kinetic Study of Adsorption of Cationic and Anionic Dyes,
W76-04791 9-10 5D

RAYMOND, C. F.
Some Observations on the Behavior of the Liquid and Gas Phases in Temperate Glacier Ice,
W76-05915 9-12 2C

RAZMAEV, I. I.
Relation Between Plant Transpiration and Metabolism, (In Russian),
W76-08583 9-16 2D

Relationship Between Plant Respiration and Water Metabolism, (In Russian),
W76-06789 9-13 2I

RAZOUKI, S. S.
Interpretation of in Situ Permeability Tests on Anisotropic Deposits,
W76-12455 9-23 2G

RAZOULS, C.
An Estimation of Total Production of Planktonic Copepods in Neritic Zone of the Golfe Dulion (Banyuls-Sur-Mer): I. Quantitative Annual Variation, (In French),
W76-12954 9-24 5C

RAZYULITE, R. I.
Development Aspects of Bacterial Flora Under Different Ecological Conditions, (In Russian),
W76-07284 9-14 5C

REA, D.
Dynamic Properties of San Bernardino Intake Tower,
W76-04107 9-09 8A

REARDON, D. J.
Biological Treatment of Winery Stillage,
W76-04731 9-10 5D

REBACH, S.
Burying Behavior in Relation to Substrate and Temperature in the Hermit Crab, Pagurus Longicarpus,
W76-00829 9-02 2L

RECHER, H. F.
The Fauna of Careel Bay with Comments on the Ecology of Mangrove and Sea-Grass Communities,
W76-06022 9-12 2L

RECHT, H. L.
Electrochemical Cell for Decreasing the Cyanide and Heavy Metal Content of an Aqueous Solution,
W76-10972 9-20 5D

Removal of Phosphate from Waste Water,
W76-09458 9-18 5D

RECHT, P.
Quality Control and Harmonization Programmes for the Assessment of Effects and the Measurement of Environmental Pollution in the European Communities,
W76-11613 9-21 5G

RECHTIEN, D.
Detection of Incipient Failure in Earth Dams,
W76-07671 9-15 8D

RECHTIEN, R. D.
The Detection and Mapping of Subterranean Water Bearing Channels--Phase II,
W76-05129 9-11 4B

RECKSIEK, C. W.
Distribution of Pelagic Fishes in the Sheepscot River-Back River Estuary, Wiscasset, Maine,
W76-12710 9-24 2L

RECORDS, L.
Run Drill Pipe Slower and Reduce Formation Damage,
W76-10097 9-19 8G

RECTOR, N. H.
Water Level Gauge,
W76-05977 9-12 7B

REDDELL, D. L.
Groundwater Quality Beneath a Manure Disposal Area,
W76-04935 9-10 5B

Odor Intensities at Cattle Feedlots,
W76-00919 9-02 5A

Optimization of Water Use Efficiency Under High Frequency Irrigation: II System Simulation and Dynamic Programming,
W76-01083 9-03 3F

REDDING, J. M.
Macroscopic Benthic Fauna of Three Tidal Creeks Adjoining the Rhode River, Maryland,
W76-09143 9-17 5B

Water Quality in Rhode River at Smithsonian Institution Pier Near Annapolis, Maryland, April 1970 Through December 1973,
W76-03914 9-08 5A

REDDY, M. P.
Biological Treatment of Waste with High Ash Content Using a Hydrolytically Assisted Extended Aeration Process,
W76-10231 9-19 5D

REDDY, S. R.
Effect of Water Temperature on the Predatory Efficiency of Gambusia Affinis,
W76-12709 9-24 5C

REDDY, S. RAVICHANDRA
Effect of Running Water on the Predatory Efficiency of the Larvivorous Fish Cambusia Affinis,
W76-06021 9-12 2I

REDEKOPP, A. B.
Operator Training and Certification in Canada,
W76-11653 9-22 5G

Ottawa Plays Key Role in Technology Transfer,
W76-00643 9-02 5D

REDEY, L.
The Electrochemical Treatment of Industrial Waste Solutions and Sewage,
W76-06972 9-14 5D

REDFIELD, A. C.
A Piston Corer for Peat,
W76-04950 9-10 7B

A Piston Corer for Peat,
W76-06724 9-13 5A

REDMANN, G. A.
Permissible Levels of Heavy Metals in Secondary Effluent for Use in a Combined Sewage Treatment-Marine Aquaculture System. II. Development of Guidelines by Method of Additions,
W76-03548 9-08 5C

Permissible Levels of Heavy Metals in Secondary Effluent for use in a Combined Sewage Treatment-Marine Aquaculture System. II. Development of Guidelines by Methods, of Additions,
W76-10994 9-20 5D

REDMON, D. T.
Diffused Air in Deep Tank Aeration,
W76-10226 9-19 5D

Oxygen Transfer Efficiency in Deep Tanks,
W76-03691 9-08 5D

REE, W. O.
Dependable Yield of Reservoirs with Intermittent Inflows,
W76-05908 9-12 4A

REEBURGH, W. S.
Oceanographic Conditions During 1973 in Russel Fjord, Alaska,
W76-08525 9-16 2L

REED, J. F.
Panel on Discipline Viewpoints and Positions: Ecology,
W76-00064 9-01 6C

REED, J. R.
Preliminary Investigations of a Headwater Creek in Eastern Kentucky,
W76-11284 9-21 5C

Uptake and Elimination of Radiotungsten in Black Bullheads,
W76-10293 9-19 5C

REED, K. E.
Low Drift Spray Nozzle,
W76-06467 9-13 5C

REED, K. L.
Coupling of Environment to Plant Response: A Simulation Model of Transpiration.
W76-00902 9-02 2I

REED, L.
Inventories of Delaware's Coastal Vegetation and Land-Use Utilizing Digital Processing of ERTS-1 Imagery,
W76-02037 9-05 7

REED, L. A.
Hydrology and Sedimentation of Bixler Run Basin, Central Pennsylvania,
W76-09830 9-18 2

Sediment Characteristics of Five Streams Near Harrisburg, Pennsylvania, Before Highway Construction,
W76-05854 9-12 4

REED, L. E.
Computer Mapping of Turbidity and Circulation Patterns in Saginaw Bay, Michigan from Landsat Data,
W76-08746 9-16 5

Environmental Monitoring from Spacecraft Data,
W76-08532 9-16 5

REED, L. W.
An Ecological Evaluation of a Thermal Discharge. Part VI: Use of Western Lake Erie by Migratory and Wintering Waterfowl,
W76-04576 9-10 5

REED, R. E.
Water Pollution Control Problems and Programs of the Maine Sardine Council,
W76-04739 9-10 5

REED, R. K.
Observations of the California Undercurrent Off Washington and Vancouver Island,
W76-09584 9-18 2

REED, R. W.
Public Priorities for Great Lakes Research,
W76-01515 9-04 5

D, S. A.
e Impact of Increased Fuel Costs and Infla-
n on the Cost of Desalting Sea Water and
ackish Waters,
76-12778 9-24 3A

D, S. C.
nd Disposal: State of the Art,
76-03849 9-08 5E

D, W. E.
epositional Environment Interpretation from
ttling-Velocity (PSI) Distributions,
76-01265 9-03 2J

DER, H. O.
rtificial Recharge Through a Well in Fissured
rbonate Rock, West St. Paul, Minnesota,
76-08046 9-15 4B

DER, W. C.
ethod for Irrigating Terrain,
76-05021 9-11 3F

eeper Irrigation Device,
76-05022 9-11 3F

S, F. B.
echnical Capabilities of Offshore Exploration
perations to Maximize Safety amd Environ-
ental Protection,
76-11004 9-20 5G

S, J. A.
Vater Management and Pricing Policies in En-
and and Wales,
76-01356 9-03 6B

S, S. M.
conomical Residential Pressure Sewer System
ith No Effluent,
76-12861 9-24 5D

S, T. H.
Generalized Tensor Formulation of At-
nosphere and Seas Dynamics,
76-04317 9-09 2A

SE, D. L.
lternative Methods of Estimating Snow Water
arameters,
76-08259 9-16 2C

SE, R. L.
ffects of Nitrogen, Potassium and Irrigation
n Yield and Quality of Lemon,
76-06314 9-13 3F

EVE, C. A.
lutonium and Americium in Lake Michigan
ediments,
76-08606 9-16 5C

edimentary Pu-239, Pu-240 Phase Distribu-
ions in Lake Michigan Sediments,
76-05891 9-12 5B

EVE, D. W.
he Effluent-Free Bleached Kraft Pulp Mill.
art VI. Substantial Substitution of Chlorine
ioxide for Chlorine in the First Stage of
leaching,
76-11382 9-21 3E

EVES, C. C. JR.
ynamics of Playa Lakes in the Texas High
lains,
76-02030 9-05 7B

EVES, J. M.
etection of Salts of 2,4-D in Aqueous Solution
y Laser Raman Spectroscopy,
76-08254 9-16 5A

REEVES, J. R.
Monitoring Dissolved-Oxygen Content to Assure Clean Wastewater,
W76-09202 9-17 5A

REEVES, M.
Water Movement Through Saturated-Unsaturated Porous Media: A Finite-Element Galerkin Model,
W76-07569 9-15 2F

REEVES, R. F.
Automatic System Purifies Pre-Finish Effluent at 45 GPM,
W76-01679 9-04 5D

REEVES, W. R.
Specifications for Materials Recovered From Municipal Refuse,
W76-00684 9-02 5D

REGAN, G. A.
The Role of North American Deep Water Ports,
W76-12015 9-22 5G

REGELIN, W. L.
Carbon Black Increases Snowmelt and Forage Availability On Deer Winter Range in Colorado,
W76-02518 9-06 3B

REGIER, R. J.
The Distribution of Excess Temperature from the Vienna Generating Station on the Nanticoke River,
W76-01843 9-04 5B

REGINATO, R. I.
Determining Emittances for Use in Infrared Thermometry: A Simple Technique for Expanding the Utility of Existing Methods,
W76-06923 9-14 2G

REGINATO, R. J.
Assessing Bare Soil Evaporation Via Surface Temperature Measurements,
W76-02754 9-06 2D

Assessing Soil Moisture Remotely,
W76-02753 9-06 2G

Assessing Soil-Water Status Via Albedo Measurement,
W76-02224 9-05 2D

Calculation of Evaporation Rates During the Transition from Energy-Limiting to Soil-Limiting Phases Using Albedo Data,
W76-06935 9-14 2D

Detection of Soil Moisture by Remote Surveillance,
W76-01706 9-04 2G

Estimating Evaporation: A Technique Adaptable to Remote Sensing,
W76-00701 9-02 2D

Sampling Soil-Water Distribution in the Surface Centimeter of a Field Soil,
W76-02924 9-06 2G

The Utility of Surface Temperature Measurements for the Remote Sensing of Surface Soil Water Status,
W76-00305 9-01 2G

The Utility of Surface Temperature Measurements for the Remote Sensing of Surface Soil Water Status,
W76-01121 9-03 2G

Water Content and Bulk Density Changes in a Soil Pedon Measured with Dual Energy Gamma-Ray Transmission,
W76-06238 9-13 5G

REGISTER, L. A.
A Preliminary Report on Anomalous Pressures in Deep Artesian Aquifers in Southeastern North Carolina,
W76-03526 9-08 4B

REGULLA, D. F.
Dosimetry at a High-Activity Co60 Waste Treatment Facility,
W76-09547 9-18 5D

REH, C. W.
Stream Pollution Abatement by Supplemental Pumping,
W76-00509 9-02 5D

REHBERGER, G. W.
High-Rate Water Treatment: The State-of-the-Art,
W76-00226 9-01 5F

REHEIS, M. J.
Source, Transportation and Deposition of Debris on Arapaho Glacier, Front Range, Colorado, U.S.A.,
W76-07777 9-15 2C

REHG, W. R.
Analysis for Aqueous Nitrates and Nitrites and Gaseous Oxides of Nitrogen by Electron Capture Gas Chromatography,
W76-03707 9-08 5A

REHM, A.
Sphaeroma Terebrans: A Threat to the Mangroves of Southwestern Florida,
W76-00998 9-02 5C

REHWOLDT, R.
Distribution of Selected Metals in Tissue Samples of Carp, Cyprinus Carpio,
W76-10082 9-19 5C

Uptake and Effect of Cadmium on Zebrafish,
W76-08772 9-17 5C

REICH, G.
Case Study: For the Analysis of Water Management Investments on Hand of the Example of the Kiskore River Barrage and Its Irrigation Systems,
W76-06427 9-13 4A

REICHARDT, K.
Unsaturated Hydraulic Conductivity Determination by a Scaling Technique,
W76-02558 9-06 2G

REICHENBACH-KLINKE, H-H.
Lesions Due to Drugs,
W76-04044 9-09 5C

REICHERT, M. K.
Aquatic Survey of Selected Streams with Critical Habitats on National Resources Lands Affected by Livestock and Recreation,
W76-04042 9-09 4C

REICHHOFF, J.
The Influence of Food Supply on the Migration Pattern of the Teal (Anas Crecca), (In German),
W76-02884 9-06 2H

REICHMAN, G. A.
Effect of Irrigation and Water-Table Depth on Crop Yields,
W76-00837 9-02 3F

REICHMUTH, B. J.
Air Rotary Drilling with Organic Polymers Offers Many Benefits,
W76-00388 9-01 8G

Air Rotary Drilling with Organic Polymers Offers Many Benefits,
W76-05562 9-12 8B

REICOSKY, D. C.
Corn Plant Water Stress as Influenced by Chiseling, Irrigation, and Water Table Depth,
W76-11503 9-21 3F

Crop Response to Chiseling and Irrigation in Soils with a Compact A2 Horizon,
W76-09985 9-18 3F

REID, A. B.
Costs in Relation to Charges at UK Common-User Berths,
W76-06234 9-13 6C

REID, F. M. H.
Microplankton of the North Pacific Central Gyre. I. Population Structure and Abundance, June 1973,
W76-08949 9-17 5C

REID, G. W.
Aggregate Modeling of Water Demands for Developing Countries Utilizing Socio-Economic Growth Patterns,
W76-08083 9-15 6D

The Design of Water Quality Management Projects with Inadequate Data,
W76-09623 9-18 5G

The Exchange and Growth Potential of Phosphorus in Algae Cultures,
W76-05266 9-11 5C

Interdisciplinary/Interinstitutional Requirements for Water Resource Planning: Processes to Enhance Cooperation,
W76-10609 9-20 6B

REID, I.
Seasonal Variability of Rainwater Redistribution by Field Soils,
W76-03131 9-07 2G

REID, I. A.
Glacier Surveys in Alberta - 1971,
W76-07680 9-15 2C

Glacier Surveys in British Columbia - 1970,
W76-04154 9-09 2C

Retransmission of Water Resources Data Using the ERTS-1 Data Collection System,
W76-02032 9-05 7B

REID, J. K.
Summary of Floods in the United States During 1969,
W76-01576 9-04 2E

REID, R. O.
Dense Effluent Dispersion in a Stream,
W76-08316 9-16 5B

Wind-Driven Flow of Water Influenced by a Canopy,
W76-08801 9-17 2H

REID, W. P.
Fluid Purification Device,
W76-04285 9-09 5F

REIDINGER, R. B.
Institutional Rationing of Canal Water in Northern India: Conflict Between Traditional Patterns and Modern Needs,
W76-06235 9-13 6D

REILLY, F. V.
Identification of Special Hazard Areas List of Communities with Special Hazard Areas,
W76-10773 9-20 6F

REIMAN, J. M.
In-Plant Hot-Gas Blanching of Vegetables,
W76-04743 9-10 3E

REIMANN, B. E. F.
Skeletonema Menzelii Sp. Nov., A New Diatom from the Western Atlantic Ocean,
W76-12766 9-24 2L

REIMANN, H.
Oxygen Aeration System for Contaminated Liquids,
W76-10961 9-20 5D

REIMER, A. A.
Effects of Crude Oil on Corals,
W76-11812 9-22 5C

Total Mercury in Some Fish and Shellfish Along the Mexican Coast,
W76-01925 9-04 5C

REIMER, R. D.
Total Mercury in Some Fish and Shellfish Along the Mexican Coast,
W76-01925 9-04 5C

REIMOLD, R. J.
Chlorinated Hydrocarbon Pesticides and Mercury in Coastal Biota, Puerto Rico and the U.S. Virgin Islands--1972-74,
W76-08683 9-16 5B

Detritus Production in Coastal Georgia Salt Marshes,
W76-08688 9-16 5C

REINER, H. W.
Is Collective Waste Treatment the Answer to 1983,
W76-06962 9-14 5D

REINER, T. A.
Marginal Pollution Analysis for Long Rage Forecasts,
W76-11127 9-21 5G

REINERT, R. E.
Dieldrin and DDT: Accumulation from Water and Food by Lake Trout (Salvelinus Namaycush) in the Laboratory,
W76-11279 9-21 5C

REINHARD, M.
Characterization of Aromatic Hydrocarbons (Charakterisierung Aromatischer Kohlenwasserstoffe),
W76-01754 9-04 5A

REINHARDT, A. W.
Organics, Water, and Health: A Reuse Problem,
W76-01789 9-04 5D

REINHARDT, J.
Cockeysville Quadrangle: Geology, Hydrology and Mineral Resources,
W76-04407 9-09 7C

REINHARDT, K.
Apparatus for the Aeration of Effluent wit
Oxygen-Containing Gas,
W76-05035 9-11 5E

REINKE, E. E.
Propelling Pipe Support Tower for Pivot Irriga
tion Systems,
W76-02999 9-06 3F

REINKE, R. F.
Lightweight Traveling Irrigation System,
W76-02259 9-05 3F

REIQUAM, H.
Interdependence of Air, Water, and Soil Pollu
tion Control Strategies in a Power Plant and
Kraft Mill,
W76-03297 9-07 5E

REIS, A.
Method and Apparatus for the Disinfection o
Liquids by Anodic Oxidation and Precedin
Reduction,
W76-02251 9-05 5A

REISA, J. J. JR.
Ohio River Cooling Water Study,
W76-10414 9-19 5C

REISCHEL, M. T.
Freezing Nucleation in Aqueous Electrolytes,
W76-01479 9-03 2C

REISH, D. J.
The Effect of Heavy Metals on Laborator
Populations of Two Polychaetes with Com
parisons to the Water Quality Conditions an
Standards in Southern California Marin
Waters,
W76-08451 9-16 5C

The Effect of Various Water Temperatures o
the Survival and Reproduction in Polychaetou
Annelids: Preliminary Report,
W76-11797 9-22 5C

Induction of Abnormal Polychaete Larvae b
Heavy Metals,
W76-11726 9-22 5C

REIST, P. C.
Health Significance of Airborne Microorgan
isms from Waste Water Treatment Processes
Part II: Health Significance and Alternative
for Action,
W76-06327 9-13 5B

Health Significance of Airborne Microorgan
isms from Wastewater Treatment Processes
Part I: Summary of Investigations,
W76-06326 9-13 5B

REITER, E. R.
Dispersion of Pollutants,
W76-10907 9-20 5B

REITER, W. M.
In-Plant Waste Abatement,
W76-07656 9-15 5D

REIZIN'SH, R. E.
Some Causes of Anomalies in Oxygen Mas
Transfer in Polluted Water, (In Russian),
W76-12265 9-23 5B

REKTORIK, R. J.
Field Drainage with Manifold Well Points,
W76-09586 9-18 5G

YEA, C. M.
ydrologic Forecasting for the Ohio River aterway,
76-09944 9-18 2E

ILEY, S.
cing Up to Sludge Disposal in New Jersey,
76-03341 9-07 5E

ARD, K. G.
pplicability of the Universal Soil Loss Equa-n to Semiarid Rangeland Conditions in the uthwest,
76-02222 9-05 2J

diment Yield as Related to a Stochastic odel of Ephermeral Runoff,
76-11512 9-21 2J

nunderstorm Precipitation Effects on the ainfall-Erosion Index Of The Universal Soil oss Equation,
76-02740 9-06 2A

BERG, L.
n Exchange Technique for the Determination Chlorinated Phenols and Phenoxy Acids in rganic Tissue, Soil, and Water,
76-06122 9-12 5A

NDIC, D.
race-Element Analysis Using X-Ray Emission pectroscopy,
76-09697 9-18 5A

NEAU, R. B. JR.
hosphorus Distribution from Septic Tank Ef-uent in Coastal Plain Soils,
76-10015 9-19 5B

NFRO, W. C.
elative Importance of Food and Water in ong-Term Zinc-65 Accumulation of Marine iota,
76-03780 9-08 5C

NGER, E. H.
hlorine Reactions with Seawater Constituents nd the Inhibition on Photosynthesis of Natural larine Phytoplankton,
76-08946 9-17 5C

lutrient Regeneration by Oceanic Zooplank-on: A Comparison of Methods,
76-08950 9-17 5C

NGER, M.
nvestigations on the Erodibility of a Deeply lowed Gray-Brown Podzolic Soil from Loess n a Slope by Means of Simulated Rain, (In ierman),
76-09917 9-18 2J

NICK, E. O. JR.
Oil-Spill Detection System,
76-02996 9-06 5A

NISON, W.
he Hydrology of an Acid Mine Problem,
76-06942 9-14 5G

NK, R. R.
Naturally Occurring Organic Compounds and Algal Growth in a Eutrophic Lake,
76-05253 9-11 5C

NNELLS, D. D.
Removal of Dissolved Molybdenum from Wastewaters by Precipitates of Ferric Iron,
76-01106 9-03 5D

RENZONI, A.
Toxicity of Three Oils to Bivalve Gametes and Larvae,
W76-11967 9-22 5C

RENZONI, S.
Bodily Distribution, Accumulation and Excretion of Mercury in a Fresh-Water Mussel,
W76-10081 9-19 5C

REPLOGLE, J. A.
Portable, Adjustable Flow-Measuring Flume for Small Canals,
W76-13007 9-24 4A

RESIO, D. T.
Design Wave Information for the Great Lakes, Report 1, Lake Erie,
W76-07473 9-15 2H

RESS, S.
Ex Post Evaluation of the Socio-Economic Effectiveness of Large Water Resources Projects,
W76-07139 9-14 6B

RETTMAN, P. L.
Geochemical and Isotopic Analyses of Waters Associated with the Edwards Limestone Aquifer, Central Texas,
W76-09836 9-18 2K

REULE, C. A.
Estimating Water Salinity with Geophysical Earth Resistivity Equipment,
W76-08332 9-16 2K

REUSS, J. O.
Chemical/Biological Relationships Relevant to Ecological Effects of Acid Rainfall,
W76-06650 9-13 5A

REUSSOW, J. P.
Water Resources of the St. Joseph River Basin in Indiana,
W76-04993 9-10 7C

REUTER, J.
Design and Mode of Operation of Synthetic Organic Flocculants and Their use in Solid/Liquid Separation in the Chemical Industry and in Environmental Protection (Aufbau und ihre Anwendung Bei Fest/Flussig-Trennungen in der Chemischen und im Unweltschutz),
W76-03994 9-08 5D

Possibilities of Automating the Operation of Clarifying Thickeners in Processing Plants by Using Organic-Synthetic Flocculants (Moyens D'Automatiser Par L'Emploi De Floculants Organiques Synthetiques Le Fonctionnement Des Epassisseurs Clarificateurs Utilises Dans Les Installations De Preparation),
W76-07545 9-15 5D

REUTER, L. H.
Wastewater Reuse Within an Army Field Hospital,
W76-11269 9-21 5D

REUTSKI, U. H.
Soil Moisture Regime and Pigment Content in Leaves of Cereals, (In Belorussian),
W76-08304 9-16 3F

REUTSKI, U. R.
Role of Groundwaters in Redistribution of Solar Radiation by a Phytocenosis, (In Belorussian),
W76-08665 9-16 2I

REUTTER, J. M.
Laboratory Estimates of the Seasonal Final Temperature Preferenda of Some Lake Erie Fish,
W76-11280 9-21 2H

Zooplankton of Western Lake Erie at Put-in-Bay: A Quantitative Study, April 1973-March 1974,
W76-08833 9-17 5C

REUTTER, V. M.
Zooplankton of Western Lake Erie at Put-in-Bay: A Quantitative Study, April 1973-March 1974,
W76-08833 9-17 5C

REVEL, J. C.
The Lake Texcoco (Mexico) Sediments and their Capacity to Support Vegetation, (In French),
W76-11738 9-22 2J

REVELLE, C. S.
Designing Regionalized Waste Water Treatment Systems,
W76-13166 9-24 5D

REVENKO, N. G.
Occurrence and Outflow of Zooplankton in the Kiev Reservoir, (In Russian),
W76-08090 9-15 5C

REY, G.
Zero Discharge of Industrial Wastewaters,
W76-03834 9-08 5G

REYNOLDS, B. J.
The Environmental and Sociological Impact of Recycling of Agricultural Waste by Land Use,
W76-11641 9-22 5D

REYNOLDS, C. S.
Interrelations of Photosynthetic Behaviour and Buoyancy Regulation in a Natural Population of a Blue-Green Alga,
W76-04587 9-10 5C

Temperature and Nutrient Concentration in the Characterization of the Water Supply to a Small Kataglacial Lake Basin,
W76-04591 9-10 5C

REYNOLDS, D.
How to Cope with Sulfide Corrosion,
W76-10116 9-19 8G

REYNOLDS, D. W.
Retrieval Means for a Floating Liquid Spilling,
W76-13152 9-24 5G

Satellite Support to the Hiplex Activities for 1975,
W76-06613 9-13 3B

REYNOLDS, J. B.
Feeding Behavior and Temperature and Light Tolerance of Mysis Relicta in the Laboratory,
W76-08931 9-17 5C

REYNOLDS, J. H.
Biomass Distribution and Kinetics of Baffled Lagoons,
W76-05590 9-12 5D

Comparison of Semi-Continuous and Continuous Flow Bioassays,
W76-06705 9-13 5C

Disposal Alternatives for Intermittent Sand Filter Scrapings Utilization and Sand Recovery,
W76-12219 9-23 5D

REYNOLDS, J. H.

The Effects of Media Modifications upon Selenastrum Capricornutum in Batch Cultures,
W76-06706 9-13 5C

Effects of Temperature on Oil Refinery Waste Toxicity,
W76-03786 9-08 5C

Effects of Temperature on Oil Refinery Waste Toxicity,
W76-12711 9-24 5C

Intermittent Sand Filters for Upgrading Lagoon Effluents,
W76-00257 9-01 5D

Intermittent Sand Filtration to Upgrade Lagoon Effluents--Preliminary Report,
W76-07051 9-14 5D

REYNOLDS, M. A.
Advanced Waste Treatment Plant Features Nitrification,
W76-09020 9-17 5D

REYNOLDS, R. C.
Atmospheric Sulfur: Its Effect on the Chemical Weathering of New England,
W76-11890 9-22 5A

REYNOLDS, R. W.
An Orthogonalized Convolution Method of Tide Prediction,
W76-12192 9-23 2L

REYNOLDS, S. A.
Interaction of Plutonium with Complexing Substances in Soils and Natural Waters,
W76-08605 9-16 5B

REYNOLDS, T. W.
Preliminary Assessment of Systems for Deriving Liquid and Gaseous Fuels from Waste or Grown Organics,
W76-12967 9-24 5D

REYNOLDS, W. W.
Salinity Tolerance of the Tidepool Shrimp Palaemon Ritteri Holmes,
W76-03040 9-07 5C

REYSSAC, J.
Observations on Phytoplankton and Primary Production in the Region of the Arguin Bank (Mauritania) in April and May 1972, (In French),
W76-05229 9-11 5C

Quantitative Aspect of the Phytoplankton of the Bay Du Levrier (Mauritania), (In French),
W76-09987 9-18 5C

RHEE, C. S.
Computational Methods Applicable to the Coupled VTE/MSF Distillation System,
W76-06253 9-13 3A

RHEES, R. C.
Interface of Electrochemical and Conventional Methods for Pollution Control,
W76-03532 9-08 5D

RHETT, J. T.
EPA Guidance and Policy on Land Treatment,
W76-11638 9-22 5D

The Federal Construction Grant Process from a (Bilene) to Z (Anesville),
W76-00629 9-02 5G

RHEY, M. S.
Distribution of Ponderosa Pine Forest Densities on the Salt-Verde River Basin,
W76-09477 9-18 4A

RHOADES, E. D.
Nutrient and Sediment Discharge from Agricultural Watersheds in Oklahoma,
W76-01116 9-03 2A

RHOADES, J. D.
Assessing Soil Salinity and Identifying Potential Saline-Seep Areas with Field Soil Resistance Measurements,
W76-00835 9-02 3C

Calculated Drainage Water Compositions and Salt Burdens Resulting from Irrigation with River Waters in the Western United States,
W76-08671 9-16 5B

Minimizing the Salt Burdens of Irrigation Drainage Waters,
W76-00828 9-02 3C

Salt and Water Balance in Imperial Valley, California,
W76-08331 9-16 3C

Water Quality in Irrigated Watersheds,
W76-08679 9-16 5B

RHODEHAMEL, E. C.
Stratigraphy of Atlantic Coastal Margin of United States North of Cape Hatteras--Brief Survey,
W76-01583 9-04 2L

RHODES, A. C.
The Influence of Dissolved Oxygen Concentrations on Three Species on Water Mites (Hydracarina),
W76-06133 9-12 5C

RHODES, L.
The Determination and Identification of Molecular Lead Pollutants in the Atmosphere,
W76-02881 9-06 5A

RHODES, L. M.
Land Disposal of Effluent from a Sanitary Landfill,
W76-00893 9-02 5E

RHODES, R. J.
Cannibalism by the Adult Alewife (Alosa Pseudogarengus) in Southern Lake Michigan,
W76-11324 9-21 2H

RIBLE, J. M.
Bulk Density Sampler for Deep Soil Profiles,
W76-06171 9-13 7B

RICCI, L. J.
Heavy-Metal Recovery Promises Pare Water-Cleanup Bills,
W76-04778 9-10 5D

Water-Disinfection Challengers Now on Tap,
W76-00215 9-01 5F

RICE, B. L.
Classification of Wetlands Vegetation Using Small Scale Color Infrared Imagery,
W76-06411 9-13 2L

RICE, C. E.
Automated Pond Water Treatment Unit,
W76-11340 9-21 5F

Evaluating a Low-Energy, High-Volume Pump for Odor Reduction from Livestock Waste Lagoons by Mixing,
W76-12344 9-23 5G

Resistance to Flow in a Combined Channel,
W76-05273 9-11 8B

RICE, C. P.
Effects, Uptake and Metabolism of Methox
ychlor, Mirex, and 2,4-D in Seaweeds,
W76-11189 9-21 5

RICE, G. A.
Developments in Backwashing of Granular Fi
ters,
W76-01745 9-04 5

RICE, I. M.
Management Improvements Cut Costs,
W76-04533 9-10 5

Water Reuse Research,
W76-11272 9-21 5

RICE, P. A.
The Dispersed Flow Model for a Biologic
Reactor as Applied to the Activated Sludg
Process,
W76-03793 9-08 5

RICE, R. C.
A Slug Test for Determining Hydraulic Co
ductivity of Unconfined Aquifers wit
Completely or Partially Penetrating Wells,
W76-12432 9-23 2

Wastewater Renovation and Reuse: Viru
Removal by Soil Filtration,
W76-10219 9-19 5

RICE, R. M.
Factor Analysis for Interpretation of Basi
Physiography,
W76-02285 9-05 2

Fire in Vegetation Management: Its Effects o
Soil,
W76-02284 9-05 4

The Hydrology of Chaparral Watersheds,
W76-02286 9-05 4

Mass-Wasting Processes in Watershed Manage
ment,
W76-02287 9-05 4

RICE, S. D.
The Effect of Prudhoe Bay Crude Oil on Su
vival and Growth of Eggs, Alevins, and Fry o
Pink Salmon, Oncorhynchus Gorbuscha,
W76-00141 9-01 5

Toxicity and Avoidance Tests with Prudho
Bay Oil and Pink Salmon Fry,
W76-09317 9-17 5

RICH, L. G.
How to Design Aerated Lagoon Systems t
Meet 1977 Effluent Standards,
W76-09703 9-18 5

How To Design Aerated Lagoon Systems t
Meet 1977 Effluent Standards - Evaluation o
Kinetic Coefficients,
W76-12903 9-24 5

How to Design Aerated Lagoon Systems t
Meet 1977 Effluent Standards Experimenta
Studies,
W76-09157 9-17 5

How to Design Aerated Lagoon Systems t
Meet 1977 Effluent Standards System Design,
W76-10512 9-20 5

RICH, P. H.
Benthic Metabolism of a Soft-Water Lake,
W76-11907 9-22 5

he Role of Benthic Metabolism in a Bog ake,
76-11906 9-22 5C

H, T. R.
valuation of Anisotropic, Ionogenic Mem-anes (Diaflo UM-Series) for selective emoval of Divalent Cations and Anions from rackish Water by Reverse Osmosis,
76-03155 9-07 3A

HARD, J. D.
me Current Directed Movements of acrobrachium Acanthurus (Wiegmann 1836) ecapoda, Palaemonidae) under Laboratory onditions,
76-12707 9-24 2L

HARDS, A. F.
ulk Density-Water Content Relationship in arine Silts and Clays,
76-11771 9-22 2L

HARDS, B. G.
arth Pressure Observations on a Retaining all in Expansive Clay, Gougher Street Mail xchange, Adelaide,
76-08424 9-16 8D

HARDS, D.
he Effect of Soil Water on Root Production of each Trees in Summer,
76-04561 9-10 3F

HARDS, F. P.
ake Ontario Mean Temperatures and Currents July 1972,
76-03740 9-08 2H

HARDS, J. B.
emperature Effects on Aerobic Digestion inetics,
76-03668 9-08 5D

HARDS, K. S.
hannel Width and the Riffle-Pool Sequence,
76-10924 9-20 2E

omplex Width-Discharge Relations in Natural iver Sections,
76-08735 9-16 2E

HARDS, R. C.
Where Have all the Daphnia Gone.The Decline f a Major Cladoceran In Lake Tahoe, Califor-ia-Nevada,
76-04912 9-10 5C

HARDS, R. T.
erforated-Pipe Water Intake for Fish Protec-ion,
76-08137 9-16 8I

HARDS, T.
nvestigation of Diatom Populations in Rhitron nd Potamon Communities in Oak Creek, rizona,
76-02458 9-05 5A

HARDSON, C. A.
rainage Study: Hunter Brook, Sucker Brook, oldspring Brook,
76-07090 9-14 4A

idally-Produced Internal Bands on the Shell of lminius Modestus,
76-10065 9-19 5A

HARDSON, C. J.
ffects of Clear-Cutting on Nutrient Losses in spen Forests on Three Soil Types in ichigan,
76-10315 9-19 4C

RICHARDSON, C. W.
Losses of Nitrogen in Surface Runoff in the Blackland Prairie of Texas,
W76-12982 9-24 5G

RICHARDSON, E. V.
Mathematical Model of Flow in a Stream-Aquifer System,
W76-09966 9-18 2E

RICHARDSON, G.
WLJ Previews First Commercial Manure System,
W76-12361 9-23 5D

RICHARDSON, J. L.
Research on Ultrafiltration Systems Under Seawater Desalting Conditions,
W76-08117 9-16 3A

RICHARDSON, L. B.
A Respirometer Technique for Evaluating the Potential Effects of Rapid Thermal Changes to Small Aquatic Organisms,
W76-01920 9-04 5C

RICHARDSON, P. L.
The Mediterranean Outflow--A Simple Advection-Diffusion Model,
W76-00544 9-02 2L

RICHARDSON, S. L.
Bench-Scale High-Rate Disinfection of Combined Sewer Overflows; With Chlorine and Chlorine Dioxide,
W76-00371 9-01 5D

RICHARDSON, T.
Model Flood Plain Zoning Ordinance (Ohio),
W76-05227 9-11 6F

RICHARDSON, T. H.
Factor Analysis: An Exploratory Technique Applied to Mineral Cycling,
W76-10274 9-19 5B

RICHARDSON, W. H.
Biological Treatment of Combined Sewer Overflow at Kenosha, Wisconsin,
W76-00694 9-02 5D

History and Development of AWWA Standards,
W76-05096 9-11 5G

RICHARDSON, W. L.
Modeling Chloride Distribution in Saginaw Bay,
W76-11312 9-21 5B

RICHENDERFER, J. L.
Spray-Irrigation of Treated Municipal Sewage Effluent and its Effect on Chemical Properties of Forest Soils,
W76-02521 9-06 5E

RICHEY, E. P.
Application of Physical Tidal Models in Harbor and Marina Design,
W76-09984 9-18 5B

RICHTER, J.
A Simple Method for Direct Measurement of Evaporation of Soils, (In German),
W76-00448 9-01 2D

RICKARD, W. H.
Ecological Characterizations of the Boardman Site and Environs-Morrow County, Oregon,
W76-04841 9-10 5C

RICKARDS, W. L.
The Feasibility of Penaeid Shrimp Culture in Brackish Ponds Receiving Treated Sewage Effluent,
W76-03573 9-08 5C

RICKERT, D. A.
Formulation and Use of Practical Models for River Quality Assessment,
W76-01006 9-03 5G

Formulation and use of Practical Models for River Quality Assessment,
W76-06209 9-13 5G

Methods and Data Requirements for River-Quality Assessment,
W76-01334 9-03 5A

PCB's in Suburban Watershed, Reston, Va.,
W76-00319 9-01 5B

Planning Implications of Dissolved Oxygen Depletion in the Willamette River, Oregon,
W76-10332 9-19 5G

RICKMAN, R. W.
Crust Strength and Cracking: Part II. Cracking,
W76-00523 9-02 2G

RICOY, J. L.
Albuquerque Plant Designed with Computer in Mind,
W76-12638 9-23 5D

RIDDER, W. E.
Nitrates in Kansas Groundwaters as Related to Animal and Human Health,
W76-06754 9-13 5B

RIDDLE, M. J.
Characterization and Treatment of Fish Processing Plant Effluents in Canada,
W76-04752 9-10 5D

Treatability Studies At a Fish Processing Plant, Part Two,
W76-02335 9-05 5D

RIDDLE, W. G.
Modernizing Water Filtration Plants,
W76-06275 9-13 5F

RIECK, R. E.
Economic Evaluation of Liquid Manure Disposal Systems for Dairy Cattle,
W76-12357 9-23 5G

RIEDEL, F. H.
Apparatus for Removing Oil From Water,
W76-02608 9-06 5G

RIEGO, D.
Phosphate Determinations in Waters Using an Anion Exchange Resin,
W76-09370 9-17 5A

RIEMER, D. N.
Relationship Between Water Quality and Plant Growth in Ponds,
W76-11170 9-21 5C

RIESE, L.
High Gradient Magnetic Separation, A Technological Breakthrough in Water Purification,
W76-07498 9-15 5D

RIEWE, R. W.
A Driller's Good Friend - The Electric Logger,
W76-05561 9-12 8G

RIFAI, N.
Water Use in Irrigation Projects in the Syrian Arab Republic,
W76-01880 9-04 3F

RIFFLE, H. C.
Investigation of Polymer-Impregnated Concrete Pipe,
W76-01489 9-03 8F

RIGBY, B. J.
Thermal Transitions of Collagen From Fish Recovered From Different Depths,
W76-12760 9-24 5C

RIGBY, F.
Theoretical Calculations of Internal Wave Drag on Sea Ice,
W76-01486 9-03 2C

RIGGS, D. D.
Process of Water Treatment,
W76-10971 9-20 5F

Water Treatment Device with Transitorized Circuit,
W76-11833 9-22 5F

RIGGS, H. C.
Low Streamflow Characteristics,
W76-02955 9-06 2E

A Simplified Slope-Area Method for Estimating Flood Discharges in Natural Channels,
W76-13083 9-24 4A

RIGLER, F. H.
A Test of the Hypothesis that Abiotic Phosphate Complexing Influences Phosphorus Kinetics in Epilimnetic Lake Water,
W76-07429 9-14 5C

RIKE, J. L.
Obtaining Successful Squeeze-Cementing Results,
W76-04051 9-09 8F

RILEY, B. T.
Assessment of Polyvinyl Chloride as a Packaging Material for Distilled Spirits, (Enivronmental Impact Assessment),
W76-10722 9-20 6G

RILEY, C. W.
Proportional Diluter for Effluent Bioassays,
W76-03051 9-07 5A

RILEY, D. J.
Deepwater Port Site Evaluation,
W76-10766 9-20 5G

RILEY, J. E.
Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Cement Manufacturing Point Source Category,
W76-01235 9-03 5D

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Tire and Synthetic Segment of the Rubber Processing Point Source Category,
W76-01202 9-03 5G

RILEY, J. P.
Development of a Water Quaity Simulation Model Applicable to Great Salt Lake, Utah,
W76-10815 9-20 5B

The Use of Gel Filtration in the Study of Metal Binding by Humic Acids and Related Compounds,
W76-03301 9-07 5A

RILEY, J. R.
Surface Runoff and its Effect on Diffuse Salt Production From Mancos Shale Members,
W76-06583 9-13 2G

RINGUELET, R. A.
A New Stratified Plankton Sampler for Shallow Waters, (In Spanish),
W76-09193 9-17 7B

RINKEL, M.
Physical Oceanography Considerations,
W76-11483 9-21 6G

RINNE, J. N.
Change in Minnow Populations in a Small Desert Stream Resulting from Naturally and Artificially Induced Factors,
W76-02460 9-05 8I

Hydrology of the Salt River and its Reservoirs, Central Arizona,
W76-00189 9-01 2H

The Introduced Asiatic Clam, Corbicula, in Central Arizona Reservoirs,
W76-07251 9-14 2I

RIOS, R. A.
A Non-Linear Programming Model for Evaluating Water Supply Policies in the Texas Coastal Zone,
W76-12680 9-24 6D

RIOUALL, R.
Particulars of Some Specimens of Algal Flora of the Ponds of Berre and Vaine (Bouches-Du-Rhone), (In French),
W76-07950 9-15 5C

RISK, M. J.
Supershrimp: Deep Bioturbation in the Strait of Canso, Nova Scotia,
W76-11584 9-21 5C

RISTANOVIC, BOSILJKA
Bacterial Populations in Skadar Lake, (In Serbo-Croatian),
W76-11538 9-21 5C

RITCHIE, E. A.
Cathodic Protection Wells and Ground Water Pollution,
W76-09357 9-17 5G

RITCHIE, J. C.
Deposition Rates in Valleys Determined Using Fallout Cesium-137,
W76-00547 9-02 2J

Efficiency of Nitrogen, Carbon, and Phosphorus Retention by Small Agricultural Reservoirs,
W76-12983 9-24 4D

Fallout CS-137: A Tool in Conservation Research,
W76-05690 9-12 2J

Fallout 137Cs in the Soils and Sediments of Three Small Watersheds,
W76-11453 9-21 5B

Redistribution of Cesium-137 in Southeastern Watersheds,
W76-10295 9-19 5B

RITCHIE, J. T.
Nitrate and Chloride Leaching in a Swelling Clay Soil,
W76-00724 9-02 5B

RITCHIE, W.
Environmental Problems Associated with a Pipeline Landfall in Coastal Dunes at Cruden Bay, Aberdeenshire, Scotland,
W76-12223 9-23 5G

Riverbank Forms of the Colville River Delta,
W76-11769 9-22 2L

RITSCHARD, R. L.
San Fracisco Bay and Delta System: A Selected Bibliography,
W76-06912 9-14 2L

Survey of Current Environmental Research on San Francisco Bay and Delta Waters,
W76-06911 9-14 6G

RITSEMA, J. J.
Miami Pushes Regionalization to Keep Pace with Population,
W76-01546 9-04 5D

RITTALL, W. F.
A Discussion of a Near Field Dispersion Model for Sludge Discharges to Coastal Waters,
W76-05089 9-11 5B

RITTENHOUSE, R. C.
The Revolution in Water Management,
W76-00648 9-02 5G

RITTER, R.
The Bacterial Composition, and the Metabolic Activity of Some Physiological Groups of Bacteria in Two Gravel Pit Lakes,
W76-06749 9-13 5C

RIVERA, J.
The Lake Texcoco (Mexico) Sediments and their Capacity to Support Vegetation, (In French),
W76-11738 9-22 2I

RIVOSECCHI, L.
Ecological Observations on Simuliidae of the Arrone River and Influents of the Bracciano Lake, (In Italian),
W76-07936 9-15 5C

RIX, E. M.
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W76-06745 9-13 2I

ROACH, J. T.
A Land Use and Land Cover Classification System for use with Remote Sensor Data,
W76-11679 9-22 4A

ROALD, T.
Uptake of Zinc and Strontium by Brown Algae,
W76-05473 9-11 5C

ROAN, C. C.
Evaluation of the Army Pesticide Monitoring Program, Evaluation of Data from Environmental Samples Collected Prior to 1 January 1974, Part I, Soil, Sediment, Water,
W76-10048 9-19 5A

ROBACK, S.
Biological Survey of the Savannah River in the Vicinity of the Savannah River Project, Part II - Report on Work Done and Tentative Conclusions on the Fall Survey,
W76-10042 9-19 5C

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V76-10043 9-19 5C

BARDS, F. S.
nventory and Cataloging of Sport Fish and Sport Fish Waters in Southeast Alaska,
V76-01623 9-04 7C

BB, D. C. N.
t. Lawrence Seaway: A New Goal of Year-Round Navigation,
V76-09942 9-18 2C

BBINS, C. W.
Conservation of Sediment in Irrigation Runoff,
V76-01693 9-04 4D

Mechanical Snake River Undisturbed Soil Core Sampler,
W76-01272 9-03 7B

BBINS, E. I.
Stratigraphy of Atlantic Coastal Margin of United States North of Cape Hatteras--Brief Survey,
W76-01583 9-04 2L

BBINS, J. A.
Distribution of Amorphous, Diatom Frustule, and Dissolved Silica in a Lead-210 Dated Core from Southern Lake Michigan,
W76-05883 9-12 5C

Geochronology of Lake Michigan Sediments: Anomalies in Lead-210 Distributions,
W76-05885 9-12 5B

Stable Lead Geochronology of Fine-Grained Sediments in Southern Lake Michigan,
W76-05884 9-12 5B

BECK, G. G.
Chlorination of Organics in Drinking Water,
W76-12881 9-24 5C

Criteria Development for National Drinking Water Standards,
W76-00103 9-01 5F

BERSON, J. A.
A Theory of Flow Resistance for Vegetated Channels,
W76-09252 9-17 4A

BERTACCIO, F. L.
Waste Water Treatment Process,
W76-01132 9-03 5D

BERTS, B. R.
Effect of Moisture Stress on Red Maple Seedlings from Different Seed Sources,
W76-01196 9-03 2D

BERTS, D.
The Effect of Pesticides on Byssus Formation in the Common Mussel, Mytilus Edulis,
W76-00328 9-01 5C

BERTS, E. B.
Energy Requirements of Alternatives in Water Supply, Use and Conservation: A Preliminary Report,
W76-04800 9-10 6B

BERTS, E. J.
Fluid Bed Incineration of Wastes Containing Alkali Metal Chlorides,
W76-01680 9-04 5D

ROBERTS, F.
Phosphate Removal--Tackling Eutrophication from the Other Side,
W76-09436 9-18 5D

ROBERTS, K.
Influence of Colloidal Particles on Dewatering of Activated Sludge with Polyelectrolyte,
W76-03680 9-08 5D

ROBERTS, K. C.
Developments in Trench-Type Tunnel Construction,
W76-01337 9-03 8A

ROBERTS, M. C.
A Land Capability Model for the Lower Lake Monroe Watershed,
W76-02002 9-05 4A

ROBERTS, P.
Sub-Lethal Effects of Chlorinated Hydrocarbons on Bivalves,
W76-12177 9-23 5C

ROBERTS, R. J.
A Comparison of the Effects of Temperature on Wound Healing in a Tropical and a Temperate Teleost,
W76-07484 9-15 5C

ROBERTS, W. F.
Latest U. S. Sewage Regulations,
W76-13057 9-24 5D

ROBERTS, W. P.
Deposition in Upper Patuxent Estuary, Maryland, 1968-1969,
W76-10925 9-20 4C

ROBERTSON, A.
IFYGL Chemical Intercomparisons,
W76-11430 9-21 2H

U.S. IFYGL Shipboard Data Acquisition System,
W76-03416 9-07 2H

ROBERTSON, A. S.
The Hydrogeological Investigation of Fissure-Flow by Borehole Logging Techniques,
W76-00417 9-01 8G

ROBERTSON, C. E.
Cascade Atmospheric Water Resources Program, Volume I,
W76-06600 9-13 3B

Cascade Atmospheric Water Resources Program, Volume 2,
W76-06601 9-13 3B

The Economics of Converting Natural Gas-Powered Irrigation Pumps to Alternate Energy Sources in Southeastern Arizona,
W76-06588 9-13 3F

ROBERTSON, D. J.
Improvements in Phenoldisulfonic Acid Method for Determination of Nox,
W76-02557 9-06 5A

ROBERTSON, F. N.
Hexavalent Chromium in the Ground Water in Paradise Valley, Arizona,
W76-03364 9-07 4B

ROBERTSON, J.
$10-Million Aggregate Plant Recycles Process Water,
W76-12414 9-23 5D

ROBERTSON, J. D.
Sediments Exposed on the Surface of the Ross Ice Shelf, Antarctica,
W76-06188 9-13 2C

ROBERTSON, J. M.
The Exchange and Growth Potential of Phosphorus in Algae Cultures,
W76-05266 9-11 5C

ROBERTSON, R. E.
Chlorinated Resin Intended for Water Treatment,
W76-09060 9-17 5F

ROBERTSON, W. J.
Reverse Osmosis in Industrial Water Treatment,
W76-05296 9-11 5D

ROBIC, G.
Method and Apparatus for Incinerating Polluted Liquids and Mud,
W76-00846 9-02 5E

ROBICHAUX, T. J.
Bactericides Used in Drilling and Completion Operations,
W76-00409 9-01 5C

ROBIE, R. B.
Modernizing State Water Rights Laws: Some Suggestions For New Directions,
W76-03593 9-08 6E

State Viewpoint: (The Federal Water Pollution Control Act and the States: Love in Bloom or Marriage on the Rocks),
W76-06824 9-14 5G

ROBIN, G.DE Q.
Internal Reflections in Polar Ice Sheets,
W76-05681 9-12 2C

Radio-Echo Sounding: Glaciological Interpretations and Applications,
W76-05375 9-11 2C

A Submarine Sonar Study of Arctic Pack Ice,
W76-05394 9-11 7B

Velocity of Radio Waves in Ice by Means of a Bore-Hole Interferometric Technique,
W76-05383 9-11 7B

ROBINS, N. S.
A Surface Resistivity Investigation Over an Area of the English Chalk Aquifer,
W76-04690 9-10 2F

ROBINSON, C. W.
Substrate Inhibition Kinetics: Phenol Degradation by Pseudomonas Putida,
W76-04783 9-10 5D

ROBINSON, D. D.
Aeration Plant Design: Derivation of Basic Data and Comparative Performance Studies,
W76-00265 9-01 5D

ROBINSON, G. D.
Differences in Low PH Tolerance Among Strains of Brook Trout (Salvelinus Fontinalis),
W76-10074 9-19 5C

ROBINSON, H. D.
Horizontal Flow Clarifier,
W76-07447 9-14 5D

ROBINSON, J. B.
Handling Milking-Parlor Waste,
W76-00469 9-01 5D

ROBINSON, J. L.
Efficiency of Heavy Metals Removal in Municipal Sewage Treatment Plants,
W76-08008 9-15 5D

ROBINSON, J. W.
The Determination and Identification of Molecular Lead Pollutants in the Atmosphere,
W76-02881 9-06 5A

ROBINSON, K. S.
The Role of High Rate Bio-Filters in the Leather Industry,
W76-08180 9-16 5D

ROBINSON, L. R. JR.
Erosion Control During Pipeline Construction,
W76-09743 9-18 5G

ROBINSON, R. B.
Cost Optimization of Rural Water Systems,
W76-11167 9-21 6C

ROBINSON, R. M.
The Great Lakes Agreement - A Mid-Term Perspective,
W76-11650 9-22 5G

ROBINSON, R. W.
Urban Water Demand: An Economic Evaluation,
W76-01423 9-03 6D

ROBINSON, S.
Flood Management Decisionmaking in the Connecticut River Basin: Analysis of the Existing Legal, Financial and Institutional Framework for Flood Plain Management,
W76-01599 9-04 6F

ROBINSON, W. S.
Field Results: Noise-Logging Technique,
W76-00423 9-01 8G

ROBINSON-WILSON, E. F.
The Lethal and Sublethal Effects of a Zirconium Process Effluent on Juvenile Salmonids,
W76-03647 9-08 5C

ROBISON, F. L.
Floods in New York, 1972, with Special Reference to Tropical Storm Agnes,
W76-07123 9-14 2E

ROBISON, J. H.
Geohydrologic Reconnaissance of the Imperial Valley, California,
W76-08052 9-15 4B

ROBITAILLE, R.
Correction of Bias in the Estimation of the Coefficient of Skewness,
W76-05910 9-12 2E

ROBLES ESPINOSA, J.
Irrigation Districts of Mexico (Los Distritos de Riego de Mexico),
W76-02167 9-05 4A

ROBSON, C. M.
Grease Problems in Municipal Wastewater Treatment Systems,
W76-03225 9-07 5D

We Must Improve Chlorination Design,
W76-01554 9-04 5D

ROBSON, T. O.
Recent Trends in Weed Control in Freshwater,
W76-09921 9-18 4A

ROBY, R. N.
An Environmental Analysis of a Simulated Sea-Floor Mining Operation,
W76-10601 9-20 5G

ROCCHETTI, R.
The Use of Chitosan Columns for the Removal of Mercury from Waters,
W76-06239 9-13 5A

ROCHE, M.
Techniques of Simulation for Hydrologic Computation, in Quantity and Quality, of Integrated Water Resources Developments,
W76-12539 9-23 6A

ROCHE, M-A.
Geochemistry and Natural Ionic and Isotopic Tracing; Two Complementary Ways to Study the Natural Salinity Regime of the Hydrological System of Lake Chad,
W76-00028 9-01 2H

ROCHFORD, J.
Eutrophication of a Partially Enclosed Estuarine Mudflat,
W76-11811 9-22 5C

ROCK, J. F.
The Indigenous Trees of the Hawaiian Islands,
W76-06005 9-12 2I

ROCK, S.
Handling and Disposal of Bleach Plant Effluents,
W76-11383 9-21 5D

ROCK, S. I.
Decolorize Kraft Bleach Plant Effluents Effectively with Low-Cost Polymeric Adsorption Method,
W76-05288 9-11 5D

RODARTE, L.
Theory of Multiple Leaky Aquifers 1. The Integrodifferential and Differential Equations for Small and Large Values of Time,
W76-09563 9-18 2F

RODDA, D. W. C.
Water Data Collection and Use,
W76-07785 9-15 7C

RODDA, J.
Drought and Agriculture,
W76-06265 9-13 2B

RODDA, J. C.
Data Collection Systems and Their Impact on the Future Development of Hydrology,
W76-06277 9-13 7A

RODEL, M. G.
Loss of P32-Phosphate and C14-Carbonate Activity During Liquid Scintillation Counting of Aqueous Samples,
W76-02417 9-05 5A

RODENBERGER, C. A.
The Effects of Currents and Waves on an Oil Slick Retained by a Barrier,
W76-02549 9-06 5G

RODENKIRCHEN, M.
Removal of Zinc from Plating Rinse Water by Simple Neutralization,
W76-01642 9-04 5D

RODENWALD, P. G.
Sorbent for Removal of Heavy Metals,
W76-04189 9-09 5D

RODEWALD-RUDESCU, L.
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W76-06741 9-13 2

RODGERS, E. B.
Meteorological Interpretations of the Images from the Nimbus 5 Electrically Scanned Microwave Radiometer,
W76-07071 9-14 2B

Study of the Lower Stratospheric Thermal Structure and Total Ozone from Nimbus-4 IRIS,
W76-12184 9-23 2B

RODGERS, F. A.
Multi-Stage Disposable Still,
W76-04608 9-10 3A

RODINE, J. D.
The Ability of Debris, Heavily Freighted with Coarse Clastic Materials, To Flow on Gentle Slopes,
W76-10711 9-20 2

RODIONOVA, L. F.
Biological Effects of Ru106 and J131 on Water Organisms,
W76-06885 9-14 5C

RODIS, H. G.
The Shallow Aquifer--A Prime Freshwater Resource in Eastern Palm Beach County, Florida,
W76-12278 9-23 2F

RODLAND, G.
Wood Fiber Boards: Raw Materials, Defibrating Conditions, Waste Water (Trefiberplater rastoff -- defibreringsbetingelser -- avlopsvann),
W76-12476 9-23 5E

RODRIGUEZ, D. G.
Sour Water Stripper: Its Design and Application,
W76-02436 9-05 5D

RODRIGUEZ-ITURBE, I.
A Bayesian Approach to Analyzing Uncertainty Among Flood Frequency Models,
W76-05272 9-11 2E

Bayesian Generation of Synthetic Streamflows,
W76-05271 9-11 2A

Bayesian Inference and Decision Making for Extreme Hydrologic Events,
W76-01761 9-04 4A

Evaluation of Mean Square Error Involved in Approximating the Areal Average of a Rainfall Event by a Discrete Summation,
W76-09572 9-18 2B

Rainfall Generation: A Nonstationary Time-Varying Multidimensional Model,
W76-12208 9-23 2B

Rainfall-Runoff as Spatial Stochastic Processes: Data Collection and Synthesis,
W76-02069 9-05 2B

RODRIGUEZ, J. B. M. Y.
Sequencing Techniques for Project Screening,
W76-08073 9-15 6A

DRIGUEZ, J. M.
eavy Metal Content in the Sediments of the outhern Part of the Coeur D'Alene Lake,
'76-07394 9-14 2H

eavy Metal Pollution in the Sediments of the oeur D'Alene River Delta,
'76-04091 9-09 5A

DRIGUEZ JIMENEZ, J.
rocess for Treating Waste Waters from Al-aline Pulping (Procedes de traitement des eaux siduelles de fabrication des pates de cellulose ar des methodes alcalines),
'76-12497 9-23 5D

DRIGUEZ, R. H.
'ater Resources of Volcanic Islands, a Pilot roject in the Canaries,
'76-01258 9-03 2A

DRIGUEZ, R. R.
looding Effects on Light Reflectance, Trans-ittance, and Absorptance of Cotton Gossypium Hirsutum) Leaves,
'76-06794 9-13 2I

DRIGUEZ, S. E.
evelopment and Preliminary Design of an Ex-erimental Prototype Free Vortex Oil kimmer,
'76-11929 9-22 5G

DZILLER, I. D.
Metabolism of Single-Carbon Compounds in he Biological Purification of Waste Waters Metabolizm odnouglerodnykh soedinenii v rotsesse biologicheskoi ochistki stochnykh od),
'76-02514 9-06 5D

EBER, J. A.
Jltraviolet Disinfection of Activated Sludge Effluent Discharging to Shellfish Waters,
'76-12862 9-24 5D

EFS, T. G.
Parameter Influence on Runoff Modeling,
'76-04930 9-10 2A

Stochastic Reservoir Models: Relative Compu-ational Effort,
'76-04557 9-10 4A

ELS, O. A.
The Environmental Impact of Deep-Sea Min-[illegible],
'76-10602 9-20 5G

ENNHOLM, A. A. R.
Steam Stripping Removes BOD Compounds from Condensates of Continuous Pulp Mill,
'76-04194 9-09 5D

ESEL, H.
Monitoring and Automatic Filter Control of the Dreis-Tiefenback Treatment Plant (Betriebsueberwachung und Automatische Fil-tersteuerung der Aufbereitungsanlage Dreis-Tiefenbach),
'76-09679 9-18 5F

ESIJADI, G.
Survival and Chloride Ion Regulation of the Porcelain Crab Petrolisthes Armatus Exposed to Mercury,
'76-02328 9-05 5C

Toxicity of Polychlorinated Biphenyls (Aroclor 1254) to Adult, Juvenile and Larval Stages of the Shrimp Palaemonetes Pugio,
'76-10075 9-19 5C

ROESLER, F. C.
Novel Aeration System Bows,
W76-06289 9-13 5D

ROESLER, J. F.
Instrumentation and Automation of Waste-water Collection and Treatment Systems, (Literature Review),
W76-12901 9-24 5D

Instrumentation and Automation of Waste-water Treatment Systems, (Literature Review),
W76-00364 9-01 5D

ROFFMAN, A.
Drift Deposition Rates from Wet Cooling Systems,
W76-04830 9-10 5B

Environmental, Economic, and Social Considerations in Selecting a Cooling System for a Steam Electric Generating Plant,
W76-04804 9-10 6G

ROFFMAN, H. K.
Some Terrestrial Considerations Associated with Cooling Tower Systems for Electric Power Generation,
W76-04821 9-10 5B

ROGER, F.
Application of Factorial Analysis of Principal Components to the Control of Pollution of Surface Waters,
W76-05632 9-12 5B

Evaluation of Surface Water Pollution at Several Points in Relation to Zones of Shellfish Industry in Roadsteads of the Brest Region, (In French),
W76-06150 9-12 5B

ROGERS, A. C.
City Waste Water Reuse for Nuclear Power Plant Cooling,
W76-00760 9-02 5D

ROGERS, C. A.
Effects of Temperature and Salinity on the Survival of Winter Flounder Embryos,
W76-08437 9-16 5C

ROGERS, C. J.
Promising Technologies for Treatment of Hazardous Wastes,
W76-01219 9-03 5D

Recycling of Water in Poultry Processing Plants,
W76-08298 9-16 3E

ROGERS, C. W.
The Life Cycle of California Coastal Fog Onshore,
W76-01493 9-03 2B

ROGERS, D. H.
Stare Decisis in the Developing Law of the Sea,
W76-03622 9-08 6E

ROGERS, I. H.
Chemical Characteristics, Acute Toxicity and Detoxification of Foam in Two Aerated Lagoons,
W76-09295 9-17 5C

ROGERS, J. C.
Operational Ice Forecast for the Little Rapids Cut,
W76-06658 9-13 2C

ROGERS, J. K.
Treatment of Paper Box Plant Effluents,
W76-05302 9-11 5D

ROGERS, J. S.
Small Tensiometers for Field and Laboratory Studies,
W76-00733 9-02 2G

ROGERS, L. E.
Ecological Characterizations of the Boardman Site and Environs-Morrow County, Oregon,
W76-04841 9-10 5C

ROGERS, R.
Inventories of Delaware's Coastal Vegetation and Land-Use Utilizing Digital Processing of ERTS-1 Imagery,
W76-02037 9-05 7B

Monitoring Coastal Water Properties and Current Circulation with ERTS-1,
W76-02044 9-05 7B

ROGERS, R. H.
Computer Mapping of Turbidity and Circulation Patterns in Saginaw Bay, Michigan from Landsat Data,
W76-08746 9-16 5B

Environmental Monitoring from Spacecraft Data,
W76-08532 9-16 5A

A Technique for Correcting ERTS Data for Solar and Atmospheric Effects,
W76-02059 9-05 7C

Water Management Model in Florida from ERTS-1 Data,
W76-00096 9-01 7B

ROGERS, R. N.
Modular Water Filter,
W76-08210 9-16 5F

ROGERS, W.
How to Avoid Downhole Failures and Maximize Pipe Use,
W76-10114 9-19 8G

ROGERS, W. M.
Drill Pipe Failures, Causes and Preventions,
W76-04052 9-09 8G

ROGERSON, P. F.
Morphological Anomalies in Adult Oysters, Scallop, and Atlantic Silversides Exposed to Waste Motor Oil,
W76-00138 9-01 5C

ROGET, J.
Membrane Support-Plates and Fluid Separating Apparatus in which They are Present,
W76-09857 9-18 5D

ROGOZ, I.
The Hyporheic Fauna in the Catchment of the Oltetz-River, (In German),
W76-07305 9-14 2I

ROHATGI, N. K.
Fate of Metals in Wastewater Discharge to Ocean,
W76-12927 9-24 5B

ROHLEDER, H.
Degradation of Persistent Organochlorine Pollutants by Gamma Radiation and its Possible use for Waste-Water Treatment,
W76-09534 9-18 5D

ROHLICH, G. A.
A Lake--How Does It Behave,
W76-02644 9-06 5C

ROHLING, J. P.
Development of a Water Quality Instrumentation Package for Long-Term Operation from Buoys and Other Unattended Marine Platforms,
W76-09372 9-17 5G

ROHNE, P. B. JR.
Water Resources of the St. Joseph River Basin in Indiana,
W76-04993 9-10 7C

ROHOVER, J. S. AND
Temperature, Infectious Diseases, and the Immune Response in Salmonid Fish,
W76-11191 9-21 5C

ROHRER, D. M.
Effects of Gamma Radiation from Co60 on Dilute Aqueous Solutions of Linear Alkyl Sulfonate Surfactants and other Organic Pollutants,
W76-09531 9-18 5D

ROHSENOW, W. M.
Improvement of the Environmental and Economic Characteristics of Cooling Towers: Part I of II. Heat Rejection from Horizontal Tubes to Shallow Fluidized Beds,
W76-02381 9-05 5G

ROHWER, P. S.
A Radiological Assessment of Radionuclides in Liquid Effluents of Light Water Nuclear Power Stations,
W76-04836 9-10 5C

ROLFE, G. L.
Differing Sensitivity of Corn and Soybean Photosynthesis and Transpiration to Lead Contamination,
W76-00720 9-02 5B

ROLFES, J. K.
Ecological Base-Line Study of the Fish of the Anclote Anchorage,
W76-02019 9-05 5C

ROLLAG, D. A.
Egg-Processing Plant Wastes,
W76-08170 9-16 3E

ROLLER, P. S.
Method and Apparatus for Converting Saline Water to Fresh Water,
W76-09871 9-18 3A

Method and Apparatus for the Conversion of an Aqueous Scale-Formed Liquid,
W76-09872 9-18 3A

ROLLINSON, C. L.
Determination of Tungsten in Geologic Materials by Neutron Activation Analysis,
W76-03309 9-07 5A

ROLSTON, D. E.
Infiltration of Organic Phosphate Compounds in Soil,
W76-06170 9-13 5B

ROM, A. M.
A Pilot Plant for Sewage Treatment by Cross-Flow Filtration,
W76-00246 9-01 5D

ROMANENDO, N. A.
Treatment Plants for Removing Helminths from Sewage Before Its Use on Cultivated Pastures, (In Russian),
W76-06795 9-13 5D

ROMANENKO, V. I.
Method of Biological Purification of Industrial Effluents from Chromates and Bichromates,
W76-06966 9-14 5D

Method of Biological Purification of Industrial Effluents from Chromates and Bichromates,
W76-09856 9-18 5D

Process for Purification of Industrial Waste Waters from Perchlorates and Chlorates,
W76-08395 9-16 5D

ROMANKEVICH, E. A.
Organic Carbon, Phosphorus and Nitrogen in the Waters of the Sea of Japan, (In Russian),
W76-08313 9-16 5A

ROMANOV, G. A.
Clarifiers with Suspended Sediment Layer for the Purification of Effluents (Osvetliteli so vzveshennym sloem osadka dlya ochistki stochnykh vod),
W76-11388 9-21 5D

ROMANOV, V. V.
Meltwater Losses Through Infiltration into Podzolic Soils and Chernozems,
W76-06181 9-13 2G

ROMANOVA, YE. N.
Variation in Evaporative Power on Slopes of Different Exposure and Steepness in the USSR,
W76-07554 9-15 2D

ROMANOVSKII, Y. E.
Method of Studying the Spatial Distribution of Organisms, (In Russian),
W76-08176 9-16 7B

ROMBERG, G. P.
Body-Temperature Characteristics of Fish at a Thermal Discharge on Lake Michigan,
W76-03469 9-07 5C

Characteristics of Temperature-Sensitive Fish Tags Used in 1974,
W76-05897 9-12 5C

Comparison of the Movement and Recapture of Salmonid Fishes Tagged at Two Power Plants,
W76-05894 9-12 5C

Discharge Residence of TLD Tagged Fish,
W76-05898 9-12 5C

Effects of Season, Location, and Discharge Type on Fish Distribution and Density in Thermal Plumes,
W76-05896 9-12 5C

Fish Behavior at a Thermal Discharge into Lake Michigan,
W76-02012 9-05 5C

Migratory Behavior of Fish Tagged at a Nuclear Power Plant Discharge Into Lake Michigan,
W76-11281 9-2i 2H

Origin of Fin-Clipped Salmonids Collected at Two Thermal Discharges on Lake Michigan,
W76-05895 9-12 5C

ROMEO, M.
The use of a Pelagic Trophodynamic Chain f
Studying the Transfer of Metallic Pollutan
(In French),
W76-00577 9-02

ROMER, L. S.
Comparison of Hydraulic and Numerical Tid
Models,
W76-10446 9-19

ROMERIL, M. G.
A Trace Metal Problem in Pond Oyster Cu
ture,
W76-11723 9-22

ROMKENS, M. J. M.
Soil Erosion on Selected High Clay Subsiols,
W76-01308 9-03

ROMNEY, E. M.
Different Levels of Soil Organic Matter
Desert Soil and Nitrogen Fertilizer on Yiel
and Mineral Composition of Barley Grown
the Soil,
W76-10170 9-19

Mobilization of Nutrients in Soil by Acids
Sulfur and Chelating Agents,
W76-10316 9-19

Nitrogen-Silicon Interaction in Plants Grown
Desert Soil with Nitrogen Deficiency,
W76-11509 9-21

Sodium Relations in Desert Plants: 3. Cation
Anion Relationships in Three Species Whic
Accumulate High Levels of Cations in Leaves
W76-02158 9-05

RONDALL, C. W.
Temperature Effects on Aerobic Digestio
Kinetics,
W76-03668 9-08

RONDAY, F. C.
The Influence of the 'Tidal Stress' on th
Residual Circulation: Application to th
Southern Bight of the North Sea,
W76-04969 9-10

RONEY, J. R.
Environmental Considerations of Offshor
Generating Stations,
W76-12225 9-23

RONGVED, P. L.
Process for Total Sewage Treatment,
W76-00584 9-02

RONNBERG, O.
The Effects of Ferry Traffic on Rocky Shor
Vegetation in the Southern Aland Archipelago,
W76-01949 9-04

ROODE, M. C.
Energy Content of the Benthos and Epifauna in
the Pongola River, Natal, (In Afrikaans),
W76-08158 9-16

ROONEY, JOHN F.
Land Use Changes and Reservoir Development: An Application of Land Use Information
Systems,
W76-09905 9-18 4A

ROOS, D. V. D. S.
Rapid Production of Single Crystals of Ice,
W76-06186 9-13 2C

ROOT, M. J.
Dimensionless Inlet Hydrograph Model,
W76-01256 9-03 2A

TS, B. I.
ycerophosphatide Content and Composition Trout (Salvelinus Fontinalis M.) Brain,
76-08929 9-17 5C

ER, I. J.
Simple Rain-Gauge for Dense Network search,
76-06694 9-13 2B

ER, P. R.
mputerized Reduction of Meteorologic Measements from Irrigated and Nonirrigated ots in Central Utah,
76-02500 9-05 7C

RER, D. E.
eview of Standards and Other Information on ermoplastic Piping in Residential Plumbing,
76-11603 9-21 8G

AR, E. C.
odium Sulfur Oxides Wastes Disposal ocess,
76-13143 9-24 5D

E, C. R.
n Experiment in the Mixed Culture of Channel Catfish and Largemouth Bass,
76-01016 9-03 8I

E, C. W.
inancial Considerations for Rural Water ystems,
76-03433 9-07 5F

SE, W. L.
eep-Tank Extended Aeration of Refinery Vastes,
76-04205 9-09 5D

SEBERG, R. B.
ffects of Quality and Quantity of Food on Golden Shiner, Notemigonus Crysoleucas, roduction,
76-01900 9-04 2I

SEMAN, G. R.
equential Chlorination -- Impact on the Environment,
76-10860 9-20 5D

SEN, G. D.
rotein and Fat Recovery from Effluents,
76-08172 9-16 5D

SEN, H. M.
Closed-Loop Ozone Generating and Contacting ystem,
76-00593 9-02 5F

SEN, R. H.
A Preliminary Design for a National Environmental Census,
76-10642 9-20 5A

SEN, W. J.
nvestigation of Filtration Characteristics of a Nonwoven Fabric Filter,
76-12459 9-23 2G

SENBERG, E.
Cleaning of Cargo Compartments,
76-08198 9-16 5G

SENBERG, H. S.
Sodium Sulfur Oxides Wastes Disposal Process,
76-13143 9-24 5D

SENBERG, L. R.
Waste Treatment Apparatus,
76-01468 9-03 5D

ROSENBERG, N. J.
Canopy Temperature Measurement of Sorghum and Millet with Leaf Thermocouple and Infrared Thermometer Techniques,
W76-08590 9-16 2D

Comparison of a Modified Brown-Rosenberg Resistance Model with other Evapotranspiration Estimation Methods: Tests in an Irrigated Sorghum Field,
W76-08589 9-16 2D

Great Plains Evapotranspiration by a Resistance Model Using Remotely Sensed Thermal Imagery,
W76-05179 9-11 2D

The Inadvertent Impacts of Agriculture on Weather and Climate and Agricultural Methods for Amelioration of Climatic Stress,
W76-10902 9-20 3B

Resistance-Energy Balance Method for Predicting Evapotranspiration: Determination of Boundary Layer Resistance and Evaluation of Error Effects,
W76-08586 9-16 2D

Resistance-Mass Transfer Method for Estimating Evapotranspiration: Comparison with Lysimetric Measurements in Irrigated Sorghum,
W76-08588 9-16 2D

Thermal Scanner Measurements of Crop Temperatures to Estimate Evapotranspiration,
W76-08591 9-16 2D

ROSENBERG, R.
Benthic Fauna and Zooplankton in Some Polluted Swedish Estuaries,
W76-01194 9-03 5B

A Comparative Study of the Effects on the Marine Environment of Wastes from Cellulose Industries in Scotland and Sweden,
W76-11402 9-21 5C

Effects of a Sulphate Pulp Mill on the Benthic Macrofauna in a Firth of the Bothnian Sea,
W76-01947 9-04 5C

Spatial Dispersion of an Estuarine Benthic Faunal Community,
W76-06040 9-12 2L

ROSENBLATT, D. H.
Investigation Related to Prevention and Control of Water Pollution in the U.S. TNT Industry,
W76-02441 9-05 5D

ROSENBLATT, N. W.
Development of Non-Cellulosic RO Systems for Sea Water Desalting,
W76-07318 9-14 3A

ROSENBLUM, I.
Estimates of Socio-Economic Damages of an Oil Spill,
W76-12947 9-24 5G

ROSENCRANZ, A.
The Future of Environmental Defense,
W76-01961 9-04 6G

ROSENQUEST, J. B. JR.
Pulse Transfer Gives Thicker Sludge,
W76-03685 9-08 5D

ROSENTHAL, A.
Cadmium Uptake by Marine Fish Larvae,
W76-11184 9-21 5C

ROSENWALD, R. H.
Sulfide Oxidation: Sulfox System of Pollution Control,
W76-04784 9-10 5D

Treatment of an Aqueous Waste Stream Containing Ammonium Hydroxide,
W76-02850 9-06 5D

ROSEPULE, A.
Experience with a Pilot Plant for the Irradiation of Sewage Sludge; Design, Operation Experience and Cost Calculations After 18 Months of Continuous Running,
W76-09546 9-18 5D

ROSER, K. F.
Combined Septic Tank Inlet Pipe Sight Glass End Plug and Tank Aerator System.
W76-04281 9-09 5D

ROSING, J.
Planning for Coastal Recreation Opportunities Near Large Urban Areas: A Study Relating Transportation and Recreation,
W76-01516 9-04 6B

ROSIVAL, L.
Results of Hygienic and Toxicological Studies of Pesticides in Countries of the Council of Mutual Economic Assistance in 1962-1972, (In Russian),
W76-09884 9-18 5G

ROSKOPF, R. F.
Irrigation of Leased Farmland with Treated Wastewater,
W76-11667 9-22 5D

ROSLER, N.
Process for Conditioning Sewage Sludges,
W76-04269 9-09 5D

ROSOPULE, A.
Experience with a Pilot Plant for the Irradiation of Sewage Sludge, Analytical Studies on Sewage Sludge and Plant Material,
W76-09552 9-18 5D

Experience with a Pilot Plant for the Irradiation of Sewage Sludge, Results on the Effect of Differently Treated Sewage Sludge on Plants and Soil,
W76-09551 9-18 5D

ROSS, B. E.
Hydrologic Study of a Small Suburban Watershed,
W76-04510 9-10 4C

ROSS, C. B.
Lake Location and Quality as Determinants of Potential Recreation Benefits: A Study of Selected Lakes in Manitoba,
W76-06622 9-13 6B

ROSS, D. B.
A Parametric Wave Prediction Model,
W76-08337 9-16 2L

ROSS, I.
Potential of Radiation Sterilization in Solid Waste Treatment, A Status Report,
W76-09555 9-18 5D

ROSS, I. J.
Critical Waste Problems Ahead,
W76-04423 9-09 5E

ROSS, J.
Feasibility of Using Sewage Sludge in Highway Embankment Construction,
W76-10624 9-20 5E

ROSS, J.

The Green Bay Watershed - Past/Present/Future,
W76-06569 9-13 5C

ROSS, N.
How to Build A Floating Scrap Tire Breakwater,
W76-11944 9-22 8G

ROSS, R. A.
The Pyrolysis of Extracted Solids from Oxidized Kraft Black Liquor After Lignin Precipitation,
W76-07644 9-15 5D

ROSS, R. G.
Sources of Pollution From Military Installations, Part II,
W76-01763 9-04 5B

ROSS, R. H.
Method and Means for Monitoring the Quantity of Dispersed Oil in Water,
W76-05338 9-11 5A

ROSS, R. N.
Timber Production and Water Quality -- Progress in Planning for the Bull Run, Portland, Oregon's Municipal Watershed,
W76-05942 9-12 5B

ROSS, S.
Effects of Hyperbaric Pressure on Oxygen Concentration in the Swim Bladder of Poecilia Latipinna,
W76-10066 9-19 5C

ROSS, S. L.
Apparatus and Method for Recovering Pure Water from Natural Sources and Industrial Polluted Waste Sources,
W76-09867 9-18 5G

ROSS-SMITH, A. J.
Rochester's Stormwater Drainage,
W76-00791 9-02 5D

ROSS, W. D.
Analysis for Aqueous Nitrates and Nitrites and Gaseous Oxides of Nitrogen by Electron Capture Gas Chromatography,
W76-03707 9-08 5A

ROSS, W. L.
Integral Circular Wastewater Treatment Process,
W76-11222 9-21 5D

ROSSARO, B.
The Po River at the Island of Serafini, (In Italian),
W76-09305 9-17 2E

ROSSI, G.
On the Calculation of the Mean Residence Time in Monomictic Lakes,
W76-10704 9-20 2H

ROSSIE, J. P.
Economics of the Use of Surface Condensers with Dry-type Cooling Systems for Fossil-Fueled and Nuclear Generating Plants,
W76-04544 9-10 5D

ROSSIE, W. L. JR.
Control of Water Quality in Transmission and Distribution Systems,
W76-00633 9-02 5F

ROSSINSKII, N. P.
Production Studies on the Electrolytic Method of Recovering Zinc from Effluent Sediments (Proizvodstvennye issledovaniya elektroliticheskogo sposoba regeneratsii tsinka iz osadkov stochnykh vod),
W76-10846 9-20 5D

ROSSO, F. B.
Method and Means for Monitoring the Quantity of Dispersed Oil in Water,
W76-05338 9-11 5A

ROSSOLIMO, L. L.
Water Pollution and Anthropogenic Eutrophication of Inland Water Bodies, (In Russian),
W76-06775 9-13 5C

ROTH, A. A.
Effect of Temperature and Temperature Adaptation on Calcification Rate in the Hermatypic Coral Pocillopora Damicornis,
W76-10059 9-19 5C

ROTH, C. B.
Soil Erosion on Selected High Clay Subsiols,
W76-01308 9-03 2J

ROTH, E.
Isotopic Study of Hail,
W76-05665 9-12 2B

ROTH, H.
Method and Installation for the Treatment of Waste Water to Form Useful Water,
W76-07438 9-14 5D

ROTH, H. P.
Integrated Industrial Waste Water Treatment Project with Electroflotation and Reverse Osmosis (Integrales Industrie-Abwasserprojekt mit Elektroflotation und Umkehrosmose),
W76-03997 9-08 5D

ROTH, P. H.
Coccolith Sedimentation by Fecal Pellets: Laboratory Experiments and Field Observations,
W76-08954 9-17 5C

ROTHACHER, J.
Soil Stability and Water Yield and Quality,
W76-05937 9-12 4D

ROTHFELD, L. B.
Water and Energy Requirements for an Oil Shale Industry,
W76-00749 9-02 6D

ROTHROCK, D. A.
The Energies of the Plastic Deformation of Pack Ice by Ridging,
W76-04299 9-09 2C

The Thickness Distribution of Sea Ice,
W76-04696 9-10 2C

ROTHSTEIN, M.
Freeway Storm Runoff Will be Clarified,
W76-03718 9-08 5D

ROTT, E.
Biological Problems of a Manmade Small Lake, (In German),
W76-08107 9-16 5C

ROTTINGHAUS, G. E.
Improving Water Quality by control of Algae: Cellular and Extracellular Blue-Green Algal Polysaccharides,
W76-09760 9-18 5G

ROUBA, J.
Auxiliary Agents Used in Textile Finishing as New Coagulants for Effluents (Srodki pomocnicze stosowane w wykonczalnictwie jako nowe koagulanty sciekow przemyslu wlokienniczego),
W76-11501 9-21 5D

Coagulation of Textile Industry Effluents with Cationic Polyelectrolytes (Koagulacja sciekow przemyslu wlokienniczego przy uzyciu polielektrolitow kationowych),
W76-10836 9-20 5D

Coagulation of Textile Industry Effluents with Fixative 'IS' (Proby koagulacji sciekow przemyslu wlokienniczego Utrwalaczem IS),
W76-11502 9-21 5D

Processing of Sediments from Coagulation Applied as the Third Stage of Effluent Purification (Przerabianie osadow powstajacych przy zastosowaniu koagulacji jako trzeciego stopnia oczyszczania sciekow z przemyslu wlokienniczego),
W76-05697 9-12 5D

ROUECHE, L.
The Potential Impact of Peak Load Pricing on Urban Water Demands: Victoria, British Columbia, A Case Study,
W76-01355 9-03 6D

ROUGERIE, F.
The Principal Aspects of Desalination of Surface Waters of the Tropical Southwestern Pacific, (In French),
W76-11539 9-21 2D

ROULIER, M. H.
Land Disposal of Wastes: Potential for Groundwater Pollution,
W76-10667 9-20 5E

ROULLEAU, M.
The Ice Nucleating Properties of an Ultrafine Aerosol of Pure Silver Iodide,
W76-02554 9-06 2B

ROUNSEFELL, G. A.
Ecological Effects of Offshore Construction,
W76-09307 9-17 6G

ROUSE, J. V.
Radiochemical Pollution from Phosphate Rock Mining and Milling,
W76-06944 9-14 5B

ROUSE, J. W. JR.
Classifying Storm Runoff Potential with Passive Microwave Measurements,
W76-01306 9-03 7B

ROUSH, T. H.
A Salt Marsh Microcosm: An Experimental Unit for Marine Pollution Studies,
W76-09318 9-17 5C

ROUSSEAU, R.
Diffusion and Migration of Polluted Water Along the Belgian Beaches. New Experiment Involving Dumping of 100 kg Rhodamine B: Preliminary Conclusions, (In French),
W76-07207 9-14 5B

ROUSSELLE, J.
Disaggregation Models in Hydrology Revisited,
W76-09573 9-18 2A

ROVEDA, F.
Automatic Apparatus for Irrigation, with Timer,
W76-04265 9-09 3F

'EY, C. E. K.
athematical Model of Flow in a Stream-quifer System,
76-09966 9-18 2E

umerical Model of Flow in a Stream-Aquifer ystem,
76-00882 9-02 2F

'INSKII, F. Y.
igration Ability of Radionuclides and Their ransition Into Water When Using Atomic nergy for Peaceful Purposes,
76-06863 9-14 5B

'OSECCHI, L.
llution in the Effluents of Bracciano Lake d in Arrone Stream, on the Basis of the Dis-ibution of Simuliidae, Chironomidae, Cul-dae and Other Diptera, (In Italian),
76-11570 9-21 5B

'AN, M.
roblem of Selecting Indices for the Reliability Water Supply and Sewer Networks, Part I acadnienie wyboru wskaznikow niezawod-osci systemow wodociagowych i kanalizacyj-ych. czesc I),
76-06313 9-13 5F

'AN, M. J.
nplications of Zoning as An Urban Water anagement Measure,
76-08755 9-17 6F

'E, G. T.
uantitative Biological Assessment of the enthic Fauna in Deep Basins of the Gulf of aine,
76-03783 9-08 5B

'E, M. L.
itrogen in the Subsurface Environment,
76-09662 9-18 5B

'E-ROWE, D. T.
aboratory and Field Tests in the Revival of ish Affected by Rotenone,
76-09994 9-18 5C

eaction Times of Certain Freshwater Fishes a Rotenone-Containing Piscicide,
76-09993 9-18 5C

'E, W. D.
evelopment of Water Quality Management In-ices,
76-07152 9-14 5G

'EN, H.
he Role of Cost-Benefit Analysis in Policy laking,
76-11165 9-21 6B

'LAND, A.
royne Stabilization of Slope Movements and oe Erosion, Lake Huron Near Bayfield, On-rio,
76-11290 9-21 8B

'LANDSON, G.
xygen Pulp Bleaching Cuts Waste Effluents,
76-02805 9-06 5D

'SE, H. R.
he Effect of Irrigation on the Length, Weight nd Diameter of Lettuce Roots,
76-06798 9-13 3F

imulation of the Water Balance of Soil olumns and Fallow Soils,
76-11510 9-21 2D

ROY, A. F.
The Evaluation of Microbial Pathogens in Sewage and Sewage-Grown Fish,
W76-03545 9-08 5C

ROY, C. H.
Copper Etchant Effluent Treatment,
W76-04072 9-09 5D

ROY, P. K.
Effect of an Electric Current on Water Stability of the Structure of Salinized Solonetz, (In Russian),
W76-09804 9-18 2G

ROYAL, L.
Scientific Symposium on Dairy Effluent Treatment,
W76-01632 9-04 5D

ROZANOV, B. G.
Characteristics of the Quality of Irrigation Water on the Bagaevsk-Sadkovsk Irrigation System, (In Russian),
W76-11566 9-21 5B

ROZELLE, L. T.
In Situ-Formed Condensation Polymers for Reverse Osmosis: Second Phase,
W76-03151 9-07 3A

ROZHANSKAYA, L. I.
Accumulation of Radioactive and Stable Zinc by Black Sea Algae Cystoseira Barbata and Ulva Rigida,
W76-06897 9-14 5C

ROZHNOV, G. I.
Hygienic Evaluation of Electrodialysis Water Desalination Set Up, (In Russian),
W76-12394 9-23 5D

Hygienic Evaluation of the Quality of Water Desalinated in Industrial Electrodialysis Installations Under Conditions of Country Settlements, (In Russian),
W76-12910 9-24 5F

Hygienic Problems of the Design, Construction and Operation of Group Water Supply Systems, (In Russian),
W76-02477 9-05 5B

ROZYCKI, Z.
A Water Quality Control Program,
W76-07642 9-15 5D

RUBECA, L.
Ecological Observations on Simuliidae of the Arrone River and Influents of the Bracciano Lake, (In Italian),
W76-07936 9-15 5C

RUBER, H.
The Toxicity of Various Mining Flotation Reagents to Rainbow Trout (Salmo Gairdneri),
W76-08448 9-16 5C

RUBIN, A. J.
Chemistry of Water Supply, Treatment, and Distribution,
W76-00102 9-01 5F

Effect of Aluminum(III) Hydrolysis on Alum Coagulation,
W76-00110 9-01 5F

Studies on the Toxicity of Ammonia, Nitrate and Their Mixtures to the Common Guppy,
W76-10811 9-20 5C

RUBIN, H.
Onset of Thermohaline Convection in a Cavernous Aquifer,
W76-12835 9-24 2F

RUBIN, I. B.
X-Ray Diffraction and Electron Beam Analysis of Asbestiform Minerals in Lake Superior Waters,
W76-11248 9-21 5A

RUBIN, K. A.
The Role of the Coastal Zone Management Act of 1972 in the Development of Oil and Gas from the Outer Continental Shelf,
W76-10734 9-20 5G

RUBY, P.
Recharging of Underground Water Deposits,
W76-00810 9-02 4B

RUCKER, C. O.
Method for Determining and Controlling Liquid Cooling System Characteristics.
W76-06484 9-13 5G

RUCKER, R. R.
Excess Nitrogen Gas In Water Not a Cause of Coagulated Yolk Disease in Chinook Salmon,
W76-01935 9-04 5C

Gas-Bubble Disease: Mortalities of Coho Salmon, Oncorhynchus Kisutch in Water With Constant Total Gas Pressure and Different Oxygen-Nitrogen Rations,
W76-03026 9-07 5C

RUCKS, A. C.
Water Pollution Control: Crossroads of a Municipal Financial Dilemma,
W76-11626 9-22 5D

RUDAT, W. G.
Process for Conditioning Sewage Sludges,
W76-04269 9-09 5D

RUDD, J. W. M.
Acetylene Reduction Assays for Nitrogen Fixation in Freshwaters: A Note of Caution,
W76-06202 9-13 5A

Factors Controlling Rates of Methane Oxidation and the Distribution of the Methane Oxidizers in a Small Stratified Lake,
W76-12750 9-24 5B

Measurement of Adenosine Triphosphate (ATP) in Two Precambrian Shield Lakes of Northwestern Ontario,
W76-04193 9-09 5A

RUDE, L.
Feasibility of Using Sewage Sludge in Highway Embankment Construction,
W76-10624 9-20 5E

RUDER, J.
Membrane Evaporator/Sublimator Investigation,
W76-02538 9-06 3A

Membrane Humidity Control Investigation,
W76-02539 9-06 3A

Membrane Water Deaerator Investigation,
W76-02541 9-06 5F

RUDOLF, K.
Manganese Removal by Two-State Filtration (Entmanganung Durch Zweistuffenfiltration),
W76-04204 9-09 5D

RUDZIC, N.
Hydrosaline Regime of Some Soils in the Middle Part of the Calmatui River Basin. (In Rumanian),
W76-00573 9-02 2G

RUEDISILI, L. C.
Wisconsin Recreational Harbor Facilities Along Lake Michigan,
W76-06628 9-13 6B

RUEGG, R. T.
Analysis of Cost Sharing Programs for Pollution Abatement of Municipal Wastewater,
W76-02379 9-05 5G

Cost Sharing to Induce Efficient Techniques of Abating Wastewater Pollution,
W76-11135 9-21 5G

RUESINK, R. G.
The Relationship of the 96-Hour LC50 to the Lethal Threshold Concentration of Hexavalent Chromium, Phenol, and Sodium Pentachlorophenate for Fat-Head Minnows (Pimephales Promelas Rafinesque),
W76-02325 9-05 5C

RUFF, J. F.
Remote Sensing of Mississippi River Characteristics,
W76-12442 9-23 7B

RUFFO, C.
Anionic and Non-Ionic Surfactant Biodegradation in a Purifying Plant using Activating Muds (Biodegradazione de Tensioattivi Anionici e Non-Ionici in un Impianto di Trattamento a Fanghi Attivati),
W76-10238 9-19 5A

RUGG, D. D.
Economic Framework for Groundwater Quality Monitoring,
W76-10657 9-20 5G

RUHE, R. V.
Geohydrology of Karst Terrain, Lost River Watershed, Southern Indiana,
W76-05004 9-11 2F

RUKVICHAE, C.
Wabash River Systems Model - Terminal Report Phase I,
W76-12220 9-23 4A

RUMAYNTSEV, V. A.
Experiment in Applying Correlation Analysis to the Description of the Temporal Variations of Snow Melting Intensity in the Don River Basin,
W76-06173 9-13 2C

RUMENIK, R. P.
Flood-Prone Areas of Gadsden County, Florida,
W76-06443 9-13 7C

RUMER, R. R. JR.
Buffalo Harbor Diked Disposal Sites: Engineering Properties and Drainage Characteristics,
W76-06666 9-13 5E

Chloride Build-Up and Control in Lake Erie,
W76-11318 9-21 5B

Chloride Management in Lake Erie Basin,
W76-11114 9-21 5B

RUMP, O.
Phenolic Acids as Indicators of Pollution with Liquid Manure. A Method for Their Detection,
W76-03979 9-08 5A

RUMPF, R. R.
Water Soluble Block Polymers Used as Silt Control Agents,
W76-02991 9-06 5F

RUMYANTSEV, V. A.
Mathematical Simulation of the Snow Melting Process for Computing Flood Hydrographs,
W76-04965 9-10 4A

RUNCHAL, A. K.
Numerical Model for Storm Surge and Tidal Run-Up Studies,
W76-10456 9-19 2L

RUNDGREN, C. E.
Problems in Small Water Systems,
W76-03432 9-07 5F

RUNDQVIST, L. G.
Straining Apparatus,
W76-06476 9-13 3E

RUNECKLES, V. C.
Effects of Bisulfite on Metabolic Development in Synchronous Chlorella Pyrenoidosa,
W76-11187 9-21 5C

RUNGE, E. C. A.
Nitrate Occurrence in Some Soils with and Without Natric Horizons,
W76-00836 9-02 2G

RUNKLES, J. R.
High Electrolyte Water for Reclaiming Slowly Permeable Soils,
W76-01077 9-03 2G

RUOPP, D. J.
Environmental Levels of PCB'S,
W76-10641 9-20 5A

RUPKE, J. W. G.
Use of Polyelectrolytes for Overload Clarifiers,
W76-03669 9-08 5D

RUSBY, J. V.
Tide-Powered Electrical Generator,
W76-12403 9-23 8C

RUSCOMBE-KING, N. J.
Sludge Dewatering Trials at Banbury,
W76-05809 9-12 5D

RUSH, K.
Department Opposes Unilateral Extension of U. S. Fisheries Jurisdiction,
W76-10744 9-20 6E

RUSHTON, K. R.
The Alternating Direction Explicit Method for Analyzing Groundwater Flow,
W76-04691 9-10 2F

Aquifer Analysis of the Lincolnshire Limestone Using Mathematical Models,
W76-04675 9-10 2F

Pumping-Test Analysis Using a Discrete Time-Discrete Space Numerical Method,
W76-05913 9-12 4B

Pumping Test Analysis When Parameters Vary with Depth,
W76-06687 9-13 4B

Rapid Recharge in a Limestone Aquifer,
W76-06685 9-13 2F

RUSKA, W. F. JR.
Problems in Performing Environmental Assessments,
W76-07217 9-14 6G

RUSS, C. F.
Microbial Enhancement of Phosphorus Removal in Sludge Sewage Systems,
W76-02452 9-05 5D

RUSSELL, C. E.
Automatic Foam Remover for Flotation Tanks,
W76-06474 9-13 5D

RUSSELL, D. S.
Analysis of High-Purity Water and Acids by Spark Source Mass Spectrometry,
W76-12483 9-23 5A

RUSSELL, F. E.
Automatic Foam Remover for Flotation Tanks,
W76-06474 9-13 5D

RUSSELL, G. A.
From Lagooning to Farmland Application: The Next Step in Lime Sludge Disposal,
W76-03678 9-08 5D

RUSSELL, J. W.
Canyon Creek Management Analysis,
W76-02242 9-05 4C

RUSSELL, K.
Henderson County Surface Water Resources,
W76-01318 9-03 7C

RUSSELL, K. C.
High-Gradient Magnetic Filtration of Steel Plant Waste Water,
W76-08710 9-16 5D

RUSSELL, L.
Some Effects of Cadmium on Coniferous Forest Soil/Litter Microcosms,
W76-01862 9-04 5B

RUSSELL, P. H. JR.
Waste Reduction in Table Beet Processing,
W76-04735 9-10 3E

RUSSELL, S. O.
Long-Term Operation of Storage Hydro Projects,
W76-06434 9-13 4A

Sequencing Techniques for Project Screening,
W76-08073 9-15 6A

RUSSELL, V. S.
Pollution: Concept and Definition,
W76-07955 9-15 5G

RUSSO, R. C.
Upper Yellowstone River Water Quality: August 1973 - August 1974,
W76-02638 9-06 5B

RUSSO, T. N.
Discovery of the Gastropod Snail Melanoides (Thiara) Tuberculata (Muller) in Florida,
W76-00660 9-02 5B

RUST, R. H.
Detecting Saline Soils in the Red River Valley, Minnesota,
W76-02905 9-06 2G

Phosphorus in Surface Runoff from a Deciduous Forest,
W76-01145 9-03 5B

RUSU, O.
Bacterial Contents of Sewage from Large Hog Farms in Romania, (In France),
W76-02401 9-05 5A

H, E.
Improved in Situ pH Sensor for Oceano-
phic and Limnological Applications,
76-12479 9-23 7B

HER, J. H.
us Survival Patterns in a Tertiary Sewage
eatment-Aquaculture Model System,
76-10999 9-20 5D

HERFORD, F.
e of Silver and Zinc to Trace Sewage Sludge
spersal in Coastal Waters,
76-06655 9-13 5B

HROF, K.
vice for Separating Solids and Other Foreign
dies from Liquids in a Pipe Conduit,
76-08017 9-15 5D

KA, J.
me Institutional Constraints to Coastal Zone
nagement: A Case Study of Hawaii,
76-02624 9-06 6E

LEDGE, E. M.
ess in Ohio in Relation to Several Possible
urce Areas: I. Physical and Chemical Proper-
s,
76-06399 9-13 2J

ess in Ohio in Relation to Several Possible
urce Areas: II. Elemental and Mineralogical
mposition,
76-06400 9-13 2J

ICKA, J.
ow Injection Analysis. Part IV. Stream Sam-
e Splitting and Its Application to the Continu-
s Spectrophotometric Determination of
loride in Brackish Waters,
76-09339 9-17 5A

BOV, A. K.
xperimental Study of the Effect of Tempera-
re and Degree of Oxygen Saturation on the
estruction rate of Soluble Proteins in Natural
aters, (In Russian),
76-09078 9-17 5C

BOV, F. P.
ytoplankton in Northern Donetsk Ponds for
dditional Treatment, (In Ukranian),
76-08577 9-16 5C

BOVA, T. N.
ynamics of Salts SiO2, R2O3, MnO and
ater-Soluble Organic Matter in Underground
ater, (In Russian),
76-13043 9-24 5B

BYKH, R. S.
se of Cover Crops in Orchards in Connection
ith the Problem of Water Accumulation in
ils, (In Russian),
76-07268 9-14 3F

N, B. F.
he Growth Rates and Densities of Ice Crystals
etween -3C and -21C,
76-10697 9-20 2B

N, J.
otentially Beneficial Uses of Sulfuric Acid in
outhwestern Agriculture,
76-08766 9-17 3F

N, J. F.
Modified Procedure for the Determination of
itrate in Sediments and Some Natural Waters,
76-03706 9-08 5A

RYAN, P. L.
Disposition of Water from Fruit Crops and Ap-
proaches to Increase Water use Efficiency,
W76-06807 9-14 2D

RYAN, R. T.
The Behavior of Large, Low-Surface-Tension
Water Drops Falling at Terminal Velocity in
Air,
W76-07560 9-15 2B

RYAZANOVA, E. F.
Effect of Irrigation on Some Physicochemical
Properties of Ciscaucasian Chernozems of the
Second Terrace of the Don River, (In Russian),
W76-03022 9-07 3C

RYAZANSKIY, G. G.
Alignment of Longitudinally Aerating Aeration
Tanks (Naladka aerotankov prodlennoy aerat-
sii),
W76-05587 9-12 5D

RYBNICEK, K.
The Origin and Development of Waterlogged
Meadows in the Central Part of the Sumava
Foothills,
W76-06247 9-13 2I

RYBNICKOVA, E.
The Origin and Development of Waterlogged
Meadows in the Central Part of the Sumava
Foothills,
W76-06247 9-13 2I

RYCKBORST, H.
The Evaporation and Sedimentation in Man-
Made Arade Lake, Southern Portugal,
W76-10703 9-20 2D

On the Origin of Pingos,
W76-00899 9-02 2C

RYDELL, H.
Postdepositional Injections of Uranium-Rich
Solutions into East Pacific Rise Sediments,
W76-01098 9-03 8E

RYDEN, J. C.
Rationalization of Ionic Strength and Cation
Effects on Phosphate Sorption by Soils,
W76-11507 9-21 2G

RYE, H.
Computations of the Temperature Response of
Stratified Sill Fjords to Cooling-Water
Discharges,
W76-08857 9-17 5B

RYE, P. J.
The Interpretation of the Crystalline and Air
Bubble Structures of Hail Stones,
W76-06167 9-13 2B

RYHANEN, R.
Lake Hakojarvi, A Polyhumic Lake in
Southern Finland,
W76-03540 9-08 5C

RYLAND, D. W.
Remote-Sensing Techniques for Determining
Water Table Depths in Irrigated Agriculture,
W76-02160 9-05 7B

RYMER, M. J.
Fossil Fishes from the Plicene or Pleistocene
Cache Formation, Lake County, California,
W76-02495 9-05 2H

RYNDINA, D. D.
The Role of Some Polysaccharides of Brown
Algae in the Extraction of SR90 from Sea
Water,
W76-06901 9-14 5C

RYON, A. D.
Correlation of Radioactive Waste Treatment
Costs and the Environmental Impact of Waste
Effluents in the Nuclear Fuel Cycle for Use in
Establishing 'As Low as Practicable' Guides--
Appendix A. Preparation of Cost Estimates for
Volume 1, Milling of Uranium Ores,
W76-06614 9-13 5D

RYSAVY, B.
On some Problems of the Biological Control of
Human Schistosomes in Egypt,
W76-06034 9-12 5C

Some Helminths of Bulinus Truncatus and
Biomphalaria Alexandrina from the Irrigation
System Near Cairo,
W76-06028 9-12 5A

RYTHER, J. H.
Experiences with a Marine Aquaculture-Tertia-
ry Sewage Treatment Complex,
W76-03566 9-08 5D

Integrated Systems of Mollusk Culture,
W76-10996 9-20 5C

Nutrient Transformations in Mass Cultures of
Marine Algae,
W76-06441 9-13 5C

Preliminary Results with a Pilot Plant Waste
Recycling Marine-Aquaculture System,
W76-11932 9-22 5D

Removal of Inorganic Nitrogen in an Integrated
Food Chain System,
W76-10988 9-20 5C

The Use of Flowing Biological Systems in
Aquaculture, Sewage Treatment, Pollution
Assay and Foodchain Studies,
W76-10986 9-20 5C

The Use of Power Plant Waste Heat in Marine
Aquaculture,
W76-10992 9-20 5D

RZAEV, G. A.
The Effect of Soil Moisture on Content of
Various Fractions of Protein Nitrogen in
Plants, (In Azerbaijanian),
W76-00450 9-01 3F

SAAD, A. H.
Investigations on the Phytoplankton and Some
Environmental Parameters of the Shattal-Arab
(Iraq), (In German)
W76-09084 9-17 2L

SAAD, A. N.
Retardation of Condensation Nuclei Growth by
Surfactant,
W76-00908 9-02 2B

Some Remarks on Modeling of the Early
Stages of Cloud Formation in a Simulation
Chamber,
W76-07070 9-14 2B

SAAR, M. O.
Modular Water Filter,
W76-08210 9-16 5F

SAAS, A.
Incidence De La Charge Polluante Des Eaux Sur Le Comportement Des Radionucleides, (Effect of the Pollutant Burden of Water on the Behaviour of Radionuclides),
W76-10893 9-20 5C

Techniques De Determination Radide Des Effets De Synergie Radionucleides - Polluants, (Techniques for Rapid Determination of Effects of Synergy Between Radionuclides and Pollutants),
W76-10891 9-20 5A

SABET, A.
Vertical Electrical Resistivity Soundings to Locate Ground Water Resources: A Feasibility Study,
W76-05835 9-12 4B

SABEY, B. R.
Land Application of Sewage Sludge, III. Nitrate Accumulation and Wheat Growth Resulting from Addition of Sewage Sludge and Wood Wastes to Soils,
W76-10841 9-20 5E

SABODASH, V. M.
Survival of White Amur Larvae Under the Effect of Zinc Sulfate, (In Russian),
W76-12312 9-23 2I

SABOV, V. A.
Sanitary and Hygienic Evaluation of the Water of the Uzhgorod Water Supply System, (In Russian),
W76-12313 9-23 5A

SACKETT, W. M.
Light-Scattering Measurements and Chemical Analysis of Suspended Matter in the Near-Bottom Nepheloid Layer of the Gulf of Mexico,
W76-03894 9-08 2L

Use of Low Molecular-Weight-Hydrocarbon Concentrations as Indicators of Marine Pollution,
W76-10400 9-19 5B

SACKREITER, D. K.
Physical Framework of Ground Water Occurrence and Movement in Glacial Deposits in Central North Dakota,
W76-02631 9-06 7C

SADKOWSKI, A.
Studies of a Purification Model for Phenolic Wastes by Electrochemical Method (Badania Modelowe Oczyszczenia Sciekow Fenolowych Metoda Elektrochemiczna),
W76-05490 9-11 5D

SADLER, W. E.
Stream Pollution Abatement by Supplemental Pumping,
W76-00509 9-02 5D

SADOWSKI, A.
Pilot Scale Studies on Purification of Phenol Waste Waters by the Electrochemical Method (Badania Modelowe Oczyszczania Sciekow Fenolowych Metoda Elektrochemiczna),
W76-04782 9-10 5D

SADOWSKI, A. J.
Cationic Polymers for Breaking Oil-In-Water Emulsions,
W76-11449 9-21 5D

SADVAKASOV, YU. B.
Calculating Snow Cover Density in the Kyzylcha Mountain River Basin,
W76-02912 9-06 2C

SAFAR, M. M.
Comparative Study of Fresh-Salt Water Interfaces Using Finite Element and Simple Approaches,
W76-02940 9-06 2L

SAFFERMAN, R. S.
Assessment of Virus Removal by a Multi-Stage Activated Sludge Process,
W76-09676 9-18 5D

SAFFIGNA, P. G.
Model for Predicting Simultaneous Movement of Nitrate and Water Through a Loamy Sand,
W76-12985 9-24 5B

SAFFORD, G. J.
A Neutron Scattering Study of Water and Ionic Solutions,
W76-03261 9-07 1B

A Neutron Scattering Study of Water and Ionic Solutions - 1967, First Report,
W76-03260 9-07 1B

SAFFRAN, E. P.
Designing Microscreens. Here's Some Help,
W76-10033 9-19 5D

SAFHAY, M.
Oxygen, and Other Innovations, Help Lick Tough Waste Problem,
W76-08715 9-16 5D

SAFRONOVA, N. G.
Distribution and Migration of Sr90 in an Experimental Still Water Reservoir,
W76-06879 9-14 5B

SAGAR, B.
A Direct Method for the Identification of the Parameters of Dynamic Nonhomogeneous Aquifers,
W76-02943 9-06 2F

SAGARDOY, J. A.
Irrigation Organizations,
W76-01889 9-04 3F

SAGER, P. E.
Phosphorus Cycling and Luxury Phosphorus Storage by Algae in the Waters of Green Bay,
W76-11332 9-21 5C

SAGER, R. A.
Masonboro Inlet, North Carolina, Movable-Bed Hydraulic Model Study, Effects of Temperature and Experimental Procedures,
W76-07466 9-15 8B

Modeling Sediment Movement for Masonboro Inlet,
W76-09956 9-18 2L

SAGIDULLAEV, N. S.
Microflora of the Waters of one of the Underground Springs of the Karakalpak ASSR, (In Russian),
W76-07280 9-14 5B

SAGIK, B. P.
Poliovirus Inactivation by Activated Sludge,
W76-00256 9-01 5D

SAGIV, B.
Combined Irrigation and Fertilization of Tomatoes Grown on Sand Dunes,
W76-13127 9-24 3C

SAHGAL, R. K.
Development of a High Seas Oil Recovery System, Appendix II,
W76-01835 9-04 5G

SAHIMAN, H. F.
Exotic Fishes in Fresh and Brackish Waters of Florida,
W76-07421 9-14 2

SAIDI, H.
Biological Treatment of Waste with High Ash Content Using a Hydrolytically Assisted Extended Aeration Process,
W76-10231 9-19 5

SAIFUTDINOV, M. M.
Experimental Research Data on Hygienic Evaluation of the Method of Magnetic Treatment of Water, (In Russian),
W76-03536 9-08 5

Hygienic Problems of the Protection of Surface Waters and Modern Technology in Industry (In Russian),
W76-02354 9-05 5

SAIGAK, E. I.
Hygienic Evaluation of Chlorinating Water by Products of the Electrolysis of Sodium Chloride Solutions, (In Russian),
W76-03813 9-08 5

SAIGH, P. A.
Onshore Treatment System for Sewage from Watercraft Retention Systems,
W76-07058 9-14 5

SAILA, S.B.
The Effects of Two Electrical Barriers on the Entrainment of Fish at a Freshwater Nuclear Power Plant,
W76-07497 9-15 8

Simulating the Impact of the Entrainment of Winter Flounder Larvae,
W76-07488 9-15 8

SAINSBURY, M.
Dietary Habits and Heavy Metal Concentrations in Fish from the Severn Estuary and Bristol Channel,
W76-11721 9-22 5C

Polystyrene Spherules in the Severn Estuary-A Progress Report,
W76-11819 9-22 5B

SAITO, I.
Method of Oxidizing Ferrous Ion in the Acidic Solution From the Wet Refining and Mine Waste Water (Shisshiki seiren oyohi kohaisui shori ni okeru sansei yoekichu no daiichitetsu ion no sankahoho),
W76-04058 9-09 5D

SAITO, K.
Study on the Balance of Heavy Metals in Activated Sludge Treatment Process (Gesui shori shisetsu ni okeru jukinzokurui no shushi ni kansuru kenkyu),
W76-09222 9-17 5A

SAITO, S.
Observations of Colonial Multiplication in a Rapidly Growing Alga, Gonium Multicoccum Pocock (Volvocaceae),
W76-08826 9-17 5C

SAKAGAMI, J.
Closed System for Waste Water in Metal Surface Processing Factory, (In Japanese),
W76-05290 9-11 5D

SAKAGAMI, T.
Method and Apparatus of Treating Industrial Waste Liquid,
W76-02603 9-06 5D

GUCHI, O.
ies on Prevention of Water Pollution. IV. ct of Synthetic Detergents on Waste Purifi- n with Activated Sludge Process (Suishitsu u boshi ni kansuru kenkyu (Dai Po). Haisui asseiodei shori ni okeru gosei senzai no ni tsuite),
-03820 9-08 5C

GUCHI, S.
ies on the Anesthetic Effects of Eugenol to ma Prawn Juveniles (In Japanese),
-01917 9-04 5C

GUCHI, Y.
ies of Paragonimus Ohirai Miyazaki: 1939 P. Sadoensis Miyazaki Et Al. 1968 Found oto Peninsula, Ishikawa Prefecture: Japan, apanese),
-07991 9-15 5C

, K.
ies on Oxygen-Alkali Treatment of Ligne- Materials. Part V. Recycle and Reuse of te Liquor in O-PA-P Bleaching Sequence apanese),
-09337 9-17 3E

, N.
te Water Treatment by Gas Intake Ap- tus (Kitai makikomisochi ni yoru haisui i),
-04034 9-09 5D

, S.
tment Technique for Harmful Substances Water Pollution (Suishitsu Odaku Kankei ai Bushitsu Shori Gijutsu),
-05123 9-11 5D

, T.
ed System and the Modern Technology rozudo shisutemu to gendai gijutsu),
-07624 9-15 5D

AROVA, N. I.
ribution of Heterotrophic Bacteria in Water Bottom Deposits of the Kremenchug ervoir in Relation to the Intensity of elopment of Blue-Green Algae, (In Rus-),
-12306 9-23 5C

ntitative Dynamics of Bacteria in the menchug Reservoir, (In Russian),
-13195 9-24 5C

AS, J. G.
ensionless Solution of Dam-Break Flood es,
-08343 9-16 8B

N. M.
wth of Salt Marsh Microcosms Subjected hermal Stress,
-02016 9-05 5C

ENA, N. C.
er Resources Development in the Ganga- gra Interbasin in Uttar Pradesh (India),
-05763 9-12 4A

RADA, I.
hod and Apparatus for Detecting the ree of Contamination of Waste Water,
-03014 9-07 5A

MA, G.
luation of Surface Water Pollution at eral Points in Relation to Zones of Shellfish stry in Roadsteads of the Brest Region, (In ch),
-06150 9-12 5B

SALAMA, O.
The Relationship Between Social Psychological Systems and Water Resources Development: A Summary,
W76-05364 9-11 6B

SALAMIN, A.
Water Management Control System for the Zagyva-Tarna River Basin,
W76-05746 9-12 4A

SALAZAR, M. H.
Byssal Thread Production as a Toxicity Test,
W76-10362 9-19 5A

SALBACH, S. E.
IFYGL Stream Materials Balance Study,
W76-11429 9-21 5B

SALBERG, M.
Anodic Stripping Voltammetry with the Florence Mercury Film Electrode Determination of Copper, Lead and Cadmium in Sea Water,
W76-01105 9-03 5A

SALDICK, J.
Biological Treatment of Plant Waste Streams to Remove Cyanuric Acid,
W76-05027 9-11 5D

SALEH, M.
Conditioning Improves Sludge Filterability,
W76-09181 9-17 5D

SALEM, E.
Industrial Application of Condensate Treatment and Ion-Exchange Techniques,
W76-04776 9-10 5D

SALIEV, V. P.
Characteristics of the Toxic Effect of Propylphenol Isomers and their Safe Level in Water Bodies, (In Russian),
W76-12850 9-24 5C

SALINAS, F.
Seedbed Soil Salinity and Emergence of Peppers and Carrots Under Sprinkler and Furrow Irrigation,
W76-06305 9-13 3C

SALISBURY, F. B.
Plant Development Under Snow,
W76-06147 9-12 2I

SALMINA, Z. A.
Hygienic Substantiation of the Maximum Permissible Concentration of Hydrogen Peroxide in Surface Waters, (In Russian),
W76-12315 9-23 5A

SALMONS, R. J.
On-Site Bioassay Testing at Cariboo Pulp and Paper,
W76-11394 9-21 5C

SALOMAN, C. H.
Physical, Chemical, and Biological Characteristics of Nearshore Zone of Sand Key, Florida, Prior to Beach Restoration. Volume I,
W76-03177 9-07 2L

SALOMON, L. L.
Development of a Biological Monitoring Network - A Test Case - Suitability of Livestock and Wildlife as Biological Monitors for Organophosphorus Contaminants,
W76-03633 9-08 5A

SALOMONSON, V. V.
Extraction and Utilization of Space Acquired Physiographic Data for Water Resources Development,
W76-04953 9-10 4A

Extraction and Utilization of Space Acquired Physiographic Data for Water Resources Development,
W76-07566 9-15 4D

Satellite Snow Observations and Seasonal Streamflow Forecasts,
W76-12468 9-23 2C

Satellites--New Global Observing Techniques for Ice and Snow,
W76-05396 9-11 7B

Seasonal Streamflow Estimation Employing Satellite Snowcover Observations,
W76-06638 9-13 4A

SALOTTO, B. V.
The Effect of Incineration on Metals, Pesticides, and Polychlorinated Biphenyls in Sewage Sludge,
W76-03845 9-08 5D

Elemental Analysis of Wastewater Sludges from 33 Wastewater Treatment Plants in the United States,
W76-05080 9-11 5D

SALPETER, J.
Automated Methods for Assessing Water Quality Come of Age,
W76-03233 9-07 5A

SALTER, P. M.
An Objective Rainfall Interpolation and Mapping Technique,
W76-07074 9-14 2B

SALTER, S. H.
Apparatus and Method for Extracting Wave Energy,
W76-05538 9-12 8C

SALVAGGIO, M.
Some of the Growth Characteristics of Gonyaulax Tamarensis Isolated from the Gulf of Maine,
W76-07617 9-15 5C

SALVEMINI, F.
Process for the Purification of Waste Waters,
W76-11223 9-21 5D

SALZMAN, J.
Remote Sensing Study of Maumee River Effects on Lake Erie,
W76-12819 9-24 5A

SAMESHIMA, K.
On Spent Semichemical Pulping Liquors. (4) Xylan in Neutral Sulfite Semichemical Spent Liquor (In Japanese),
W76-09338 9-17 5C

SAMET, C.
The Effect of Temperature on the Behavior of Marine Fishes, a Comparison Among Atlantic Mackerel, Scomber Scombrus, Bluefish, Pomatomus Saltatrix, and Tautog, Tautoga Onitis,
W76-09507 9-18 5C

SAMI SELIM, M.
Screen Theory for Wells and Soil Drainpipes,
W76-00734 9-02 8B

SAMIEV, KH. S.
Water Regime and Content of Phosphorus Compounds of Acid-Soluble Fraction in Cotton Leaves at Different Water-Supply Levels, (In Russian),
W76-07276 9-14 2I

SAMMIS, T. W.
Variability of Infiltration Characteristics and Water Yield of a Semi Arid Catchment,
W76-02742 9-06 2G

SAMMONS, J. L.
Public Rights in Georgia's Tidelands,
W76-07824 9-15 6E

SAMOLLOW, P.
Asymmetry Analysis in Fishes: A Possible Statistical Indicator of Environmental Stress,
W76-10121 9-19 5C

SAMPAYO, F. F.
Methods for Filtering Nitrified Effluents,
W76-09015 9-17 5D

Supernatant and Filtrate Treatment,
W76-03218 9-07 5D

Supernatant Doesn't Have to Ruin Effluent Quality,
W76-05772 9-12 5D

SAMSEL, G. L. JR.
Preliminary Investigations of a Headwater Creek in Eastern Kentucky,
W76-11284 9-21 5G

SAMUELSON, H. O.
Process for Separating Cellulose from Waste Water (Verfahren zur Befreiung von Zellulose aus Abwaessern),
W76-12502 9-23 5D

SAN FELIU, J. M.
Hydrography and Phytoplankton of the Coast of Castellon, from September 1969 to January 1971, (In Spanish),
W76-12164 9-23 5A

SANBORN, D. A.
Activated Sludge-Bio-Disc Treatment of Distillery Wastes,
W76-04750 9-10 5D

SANCHEZ, P.
Puddling Tropical Rice Soils: 2. Effects of Water Losses,
W76-10118 9-19 3F

SAND, W. R.
Observations in Hailstorms Using the T-28 Aircraft System,
W76-11851 9-22 2B

SANDER, F.
Organic Productivity of Inshore and Offshore Waters of Barbados: A Study of the Island Mass Effect,
W76-09938 9-18 5C

SANDER, I. P.
Upgrading Highway Service Area Wastewater Treatment Plants,
W76-01559 9-04 5D

SANDER, J. E.
An Electric Analog Approach to Bog Hydrology,
W76-04686 9-10 2A

SANDERS, H. L.
Some Biological Effects Related to the West Falmouth Oil Spill,
W76-11029 9-20 5C

SANDERS, J. E.
Temperature, Infectious Diseases, and the Immune Response in Salmonid Fish,
W76-11191 9-21 5C

SANDERS, M.
The Detection and Mapping of Subterranean Water Bearing Channels--Phase II,
W76-05129 9-11 4B

SANDERS, T. G.
Design A River Basin Sampling System,
W76-10131 9-19 5A

SANDERS, W. M. III.
A Strategy for Aquatic Pollutants Fate and Transport Determination,
W76-10665 9-20 5B

SANDERSON, C. H.
Water Conditioning Apparatus,
W76-10480 9-19 5F

SANDERSON, E. W.
Groundwater Availability in Champaign County,
W76-10718 9-20 4B

Public Groundwater Supplies in McHenry County,
W76-10719 9-20 4B

Public Groundwater Supplies in Putnam County,
W76-06237 9-13 4B

SANDERSON, M.
A Comparison of Canadian and United States Standard Methods of Measuring Precipitation,
W76-01858 9-04 2B

SANDHU, S. S.
Potable Water Quality in Rural Georgetown County,
W76-05050 9-11 5A

SANDIFER, P. A.
Enhanced Survival of Larval Grass Shrimp in Dilute Solutions of the Synthetic Polymer, Polyethylene Oxide,
W76-04920 9-10 5C

SANDLER, T.
Intertemporal and Intergenerational Pareto Efficiency,
W76-07142 9-14 6B

Pareto Optimality, Pure Public Goods, Impure Public Goods and Multiregional Spillovers,
W76-06620 9-13 6B

SANDOSKI, D. A.
Selected Urban Storm Water Runoff Abstracts: July 1971 - June 1972,
W76-01059 9-03 10D

SANDU, G.
Hydrosaline Regime of Some Soils in the Middle Part of the Calmatui River Basin. (In Rumanian),
W76-00573 9-02 2G

SANDUSKY, J.
Stability Indicators for Nutrient Cycles in Ecosystems,
W76-04838 9-10 5C

SANER, W. A.
Tar Ball Loadings on Golden Beach, Florida,
W76-10379 9-19 5

Tar Ball Sampling in the Western North Atlantic,
W76-10380 9-19 5

SANFORD, L.
How to Sand Frac Multiple Zone Open Ho Sections,
W76-10117 9-19 8

SANFORD, T. B.
Vertical Energy Propagation of Inertial Wave A Vector Spectral Analysis of Veloci Profiles,
W76-02711 9-06 2

SANGA, S.
Sewer Waste Water Treating Agent Produce from Waste Cracking Catalyst,
W76-11219 9-21 5

SANGAM, R. B.
A Study of Extreme Point Rainfall over Fla Flood Prone Regions of the Himalaya Foothills of North India,
W76-00299 9-01 2

A Study of Major Rain Storms Over and Ne Mahi Basin up to Kadana Dam Site for t Evaluation of Probable Maximum Desi Storm,
W76-08069 9-15 2

SANGER, J. E.
A Comparison of the Abundance and Diversi of Fossil Pigments in Wetland Peats a Woodland Humus Layers,
W76-11601 9-21 5

SANGREY, D. A.
Evaluating the Impact of Structurally Inte rupted Flood Plain Flows,
W76-01808 9-04 4

Remote Sensing of Ground and Surface Wat Contamination by Leachate from Landfill,
W76-10666 9-20 5

SANKS, G. D.
Salt Tolerance and Suitability of Vario Grasses for Saline Roadsides,
W76-08764 9-17 3

SANKS, R. L.
Leaching of Pollutants from Wood-Chip Slurr
W76-04075 9-09 5

The Recycling of Kraft Bleach Wastes,
W76-00051 9-01 5

SANO, H.
The Role of pH on the Acute Toxicity Sulfite in Water,
W76-08775 9-17 5

SANTANGELO, A.
Trends and Experience in the Primary Tre ment of Papermaking Effluents (Indirizzi esperienze nel trattamento primario delle acq di scarico delle cartiere),
W76-10852 9-20 5

SANTER, S.
Chronic Toxicity of Lindane to Select Aquatic Invertebrates and Fishes,
W76-10895 9-20 5

SANTINI, D.
Does Water Use Restrict the Location of Industrial Air Polluters,
W76-12950 9-24 5G

SANTOS, S. L.
Distribution and Abundance of the Polychaetous Annelids in a South Florida Estuary,
W76-11987 9-22 5C

SANYAL, N.
Electromagnetic Depth Sounding for Ground Water Exploration in Resistive Formations,
W76-00398 9-01 4B

SAPEGIN, D. D.
Geomechanical Investigations of the Rock Bases of Hydraulic Structures,
W76-04323 9-09 8E

SARBARO, S. K.
Groundwater Resources of Altun-Kupri Area,
W76-06576 9-13 4B

SARDAROVA, G. L.
Hygienic and Toxicological Evaluation of Some Grades of Rubber used in Domestic Water Supply Systems, (In Russian),
W76-12252 9-23 5C

Sources of Contamination of Artesian Waters by Carcinogenic Hydrocarbons, (In Russian),
W76-05265 9-11 5B

SARFERT, F.
Fluctuations of the Runoff of Two Activated Sludge Plants and Its Consequences for the Observance of Limit Values (Schwankungen der Ablaeufe Zweier Schlammbelebunsanlagen und Inre Konsequenzen Fuer die Einhaltbarkeit von Grenzwerten),
W76-10242 9-19 5D

SARGENT, R.
Sala-HGMS Magnetic Filters for the Treatment of Combined Sewer Overflow,
W76-11265 9-21 5D

SARKISOV, R. N.
Comparative Evaluation of Food Plants of the Ararat Cochineal Scale (Porphyrophora Hamelii) (In Russian),
W76-09406 9-18 2I

SARKISYAN, S. M.
Comparative Evaluation of Food Plants of the Ararat Cochineal Scale (Porphyrophora Hamelii) (In Russian),
W76-09406 9-18 2I

SARKKA, M.
The Recreational Use of Water as Part of the Integrated Planning of Large Water Systems,
W76-12567 9-23 6B

SAROKWASH, P. J.
Rookery Bay Land Use Studies, Environmental Planning Strategies for the Development of a Mangrove Shoreline, Study No. 9, Principles of Ecosystem Management,
W76-05008 9-11 5G

SARTAIN, J. B.
Base-Line Data on Everglades Soil-Plant Systems: Elemental Composition, Biomass, and Soil Depth,
W76-10314 9-19 5C

SARTZ, R. S.
Effect of Plantation Establishment on Soil and Soil Water in Southwestern Wisconsin,
W76-11365 9-21 4D

Snowmelt Runoff from Planted Conifers in Southwestern Wisconsin,
W76-11369 9-21 4A

SARUKHANYAN, F. G.
Adaptation of Feed Yeast to a Cellulosic Effluent Medium (in Armenian with Russian summary),
W76-10847 9-20 5D

SASAKI, B.
Hydroelectric Power Potential at Corps of Engineers Projects,
W76-09765 9-18 6B

SASAKI, M.
Device for Damping Waves,
W76-11825 9-22 8B

SASAKI, S.
Determination of Silver in Biological Materials by High-Frequency Plasma-Torch Emission Spectrometry,
W76-03304 9-07 5A

Present Situation of Waste Water from Printing and Film Developing Plants and Treatment (Insatsu shashin genzo kojo haisui no jittai chosa to shori ni tsuite),
W76-00134 9-01 5D

SASO, Y.
Effects of Lime, Phosphate and Soil Conditioner on Growth and Fruit Quality of Netted Melon, (In Japanese),
W76-08989 9-17 3C

SASSEVILLE, D. R.
Present and Historic Geochemical Relationships in Four Maine Lakes,
W76-04943 9-10 5B

SASSONE, P.
The Political Economy of Effluent Charges,
W76-06228 9-13 5G

SASSONE, P. G.
An Economic Investigation of Tax Policies for Controlling Effluent Discharge,
W76-04535 9-10 5G

SASTRY, P. G.
Partially Penetrating Well in a Confined Aquifer,
W76-00400 9-01 8B

SASTRY, P.S.N.
Estimation of Evapotranspiration for Water Balance Studies in a Semi-Arid Region,
W76-08067 9-15 2D

SATHAYE, J.
Aqueduct Optimization with Intermediate Storage,
W76-09636 9-18 4A

Optimization of Design Capacity of an Aqueduct,
W76-12526 9-23 4A

SATO, A.
Effect of the Inorganic Coagulant for the Dyeing Waste Water Treatment with Ozone, (In Japanese),
W76-00122 9-01 5D

SATO, F.
Liquid Waste Treatment for the Petroleum Refining Industry (Seikiyu seisei ni okeru haisui shori),
W76-07537 9-15 5D

SATO, N.
Water Quality Determination Apparatus,
W76-02596 9-06 5A

SATO, S.
A Few Considerations on the Measurement of Pore Size Distribution of Activated Carbon (Kasseitan no saikokei bunpu solutei ni kansuru 2,3 no kosatsu),
W76-06309 9-13 5D

SATO, T.
Studies on Floc-Forming Substances in Activated Sludge. II. Floc-Forming Action by the Viscous Substance Extracted from Activated Sludge by Alkaline Solution. (In Japanese),
W76-00645 9-02 5D

SATOMI, Y.
On Environmental Factors of Eel Pools: I. Chemistry of the Water and Soil and Plankton in October 1965 and July 1966, (In Japanese),
W76-12275 9-23 5C

SATORHELYI, T.
Water Treatment Plants Designed at Melyepterv for Foreign Customers (Melyepterv altal kulfoldre tervezett vizkezelo berendezesek),
W76-00269 9-01 5F

SATOU, M.
Spectral Analysis of Olfactory Responses to Amino Acids in Rainbow Trout, Salmo Gairdneri,
W76-03017 9-07 5C

SATTAR, S. A.
Calcium Hydroxide (Lime) and the Elimination of Human Pathogenic Viruses from Sewage: Studies with Experimentally Contaminated (Poliovirus Type 1, Sabin) and Pilot Plant Samples,
W76-12931 9-24 5D

SATYANANDAM, G.
Studies on a Well Penetrating a Two-Aquifer System,
W76-00401 9-01 8B

SAUCIER, R. T.
Dredged Material Disposal--Effects and Alternatives,
W76-10724 9-20 5E

SAUERLENDER, O. H.
Economics of Water Supply Planning and Management,
W76-01802 9-04 6B

Water Authority Rate Making,
W76-09717 9-18 6C

SAUNDERS, F. M.
Influence of Activated Sludge CRT on Adsorption.
W76-12636 9-23 5D

SAUNDERS, K. D.
Nearshore Currents at Point Beach, Wisconsin (1974-1975),
W76-12758 9-24 7B

SAUNDERS, R. J.
Economic Benefits of Potable Water Supplies in Rural Areas of Developing Countries,
W76-06230 9-13 6B

SAUNDERS, R. L.
Environmental Salinity: Its Failure to Influence Growth of Atlantic Salmon (Salmo Salar) Parr,
W76-03045 9-07 5C

SAUROV, M. M.
The Role of Freshwater Fish as a Possible Supplier of P32 Under the Conditions of Pollution of Natural Water Reservoirs by this Radionuclide,
W76-06884 9-14 5B

SAUTER, S.
Chronic Toxicity of Atrazine to Selected Aquatic Invertebrates and Fishes,
W76-10517 9-20 5C

SAV, G. T.
Natural Disasters: Some Empirical and Economic Considerations,
W76-02625 9-06 6C

SAVALAPPAN, K. N.
Studies on the Metallic Ion Stimulation and Toxicity in Sludge Digestion,
W76-00231 9-01 5D

Tertiary Treatment Plant for Multistoried Building,
W76-05789 9-12 5D

SAVERY, C. W.
Momentum Transfer in Hydrodynamically Developing Laminar Flow in a Straight Channel,
W76-08318 9-16 8B

SAVRANSKAYA, T. M.
Study of the Effectiveness of Removing Heavy Metals in Biological Purification of Municipal Sewage, (In Russian),
W76-08580 9-16 5D

SAWHNEY, B. L.
Determination of Soil-Water Diffusivity for Anisotropic Stratified Soils,
W76-07767 9-15 2G

Phosphate Sorption Characteristics of Soils Treated with Domestic Waste Water,
W76-06330 9-13 5B

SAWYER, B. M.
Biological Nitrification of Sludge Supernatant by Rotating Disks,
W76-05800 9-12 5D

Nitrification of a High Ammonia Content Sludge Supernatant by Use of Rotating Discs,
W76-03228 9-07 5D

SAWYER, R. T.
The Biology of the Leech Myzobdella Lugubris Infesting Blue Crabs and Catfish,
W76-08932 9-17 5C

SAXENA, J.
Review and Evaluation of Available Techniques for Deterimining Persistence and Routes of Degradation of Chemical Substances in the Enviroment,
W76-12865 9-24 5A

SAXON, T.
The Awakened Interest in the Sewer Ordinance,
W76-02199 9-05 5G

SAXTON, K. E.
Nitrate Movement and its Distribution in the Soil Profile of Differentially Fertilized Corn Watersheds,
W76-06401 9-13 5B

SAYATO, Y.
Hygienic Chemical Studies on Water Quality of the Moat of Imperial Palace: I. Relationship Between Seasonal Water Quality and Microflora in the Moat. (In Japanese),
W76-07426 9-14 5C

Hygienic Chemical Studies on Water Quality of the Moat of Imperial Palace: II. Relationship Between Water Quality and Horizontal Insolation Intensity, (In Japanese),
W76-07427 9-14 5C

SAYER, W. L.
Method for Locating and Evaluating Geothermal Sources of Energy by Sensing Electrostatic Voltage Gradients,
W76-08204 9-16 4B

SAYLER, G. S.
Role of Bacteria in Bioaccumulation of Mercury in the Oyster Crassostrea Virginica,
W76-01102 9-03 5B

SAYLES, F. L.
Interstitial Water Studies on Small Core Samples. Leg 15,
W76-01581 9-04 2J

Interstitial Water Studies on Small Core Samples, Leg 22,
W76-00665 9-02 2L

SAYLOR, J. H.
Measurements of Current Flow During Summer in Lake Huron,
W76-08413 9-16 2H

Water Volume Transport and Oscillatory Current Flow Through the Straits of Mackinac,
W76-08128 9-16 2H

SAYRE, W. W.
Dispersion of Mass in Open-Channel Flow,
W76-04311 9-09 2J

Hydraulic Modeling of Shallow Cooling Ponds,
W76-07212 9-14 5G

Undistorted Movable-Bed Model Study for a River and Power Plant Intake System,
W76-09971 9-18 8B

SAZONAVA, L. S.
Soil Moisture Regime and Pigment Content in Leaves of Cereals, (In Belorussian),
W76-08304 9-16 3F

SCAMMACCA, B.
Preliminary Note on the Algal Population of the Sciophilous Surface Biotopes in the Exposed Mode, of the Island of Linosa (Strait of Sicily, Italy), (In French),
W76-07952 9-15 2L

SCAMMELL, G. W.
Anaerobic Treatment of Industrial Wastes,
W76-02977 9-06 5D

SCANGA, M.
Pollution in the Effluents of Bracciano Lake and in Arrone Stream, on the Basis of the Distribution of Simuliidae, Chironomidae, Culcidae and Other Diptera, (In Italian),
W76-11570 9-21 5B

SCARAMELLI, A. B.
Wastewater Treatment - Physical and Chemical Methods, (Literature Review),
W76-12629 9-23 5D

SCARBROUGH, J. H.
Evaluation of Anaerobic Lagoon Treating Swine Wastes,
W76-01032 9-03 5D

SCARLATA, V.
Biological Treatment by a System of Activat
Sludge Applied to the Effluent Waters of
Corrugated Board Plant,
W76-05713 9-12

Biological Treatment of Wastewaters in a Ca
board Manufacturing Plant (Trattame
biologico delle acque di scarico di un c
tonificio),
W76-00128 9-01

Influence of Temperature on Biological Pur
cation of Paper Mill Effluent (Influenza d
temperatura sulla depurazione biologica di
refluo di cartiera),
W76-05700 9-12

SCARPA, A.
Optimum Size of Equipment,
W76-03161 9-07

SCARPINO, P. V.
Effectiveness of Hypochlorous Acid
Hypochlorite Ion in Destruction of Viruses
Bacteria,
W76-00117 9-01

SCAVIA, D.
Documentation of Selected Constructs
Parameter Values in the Aquatic Mo
Cleaner,
W76-12519 9-23

SCHAAKE, J. C. JR.
Bayesian Generation of Synthetic Streamflo
W76-05271 9-11

FLOW2D: A Two-Dimensional Flow Model
Flood Plains and Estuaries,
W76-10454 9-19

Surface Waters,
W76-01119 9-03

SCHAAP, H. Y.
Measured Contributions of the Terms of
Vertically Integrated Hydrodynamic Equatio
W76-10442 9-19

SCHACHT, R.
Lake Michigan Water Quality and Lake
Survey, 1973,
W76-06937 9-14

SCHAEFER, D. H.
Artificial Recharge in the Upper Santa
River Area, San Bernardino County, Cali
nia,
W76-00655 9-02

SCHAEFER, R. H.
State-Federal Management Planning for Ma
Fisheries: Today and Tomorrow,
W76-13108 9-24

SCHAEFER, V. J.
Inadvertent Effects in Weather Modificatio
W76-10909 9-20

SCHAEFER, W.
Using Evaporation Values from Evapora
Pans to Estimate the Water Consumptio
Agricultural Plants as the Basis of Sprinkle
rigation Control, (In German),
W76-06729 9-13

SCHAEFFER, D.
Oxygen Demand Parameters: Correlatio
BOD5 with COD,
W76-03701 9-08

SCHAEFFER, R.
Incidence De La Charge Polluante Des Eaux Sur Le Comportement Des Radionucleides, (Effect of the Pollutant Burden of Water on the Behaviour of Radionuclides),
W76-10893 9-20 5C

SCHAEFLI, H.
Aluminum and Water Treatment. The 'Guldager' Electrolytic Process (L'Aluminum et le Traitment des Eaux. Le Procede Electrolytique 'Guldager'),
W76-01736 9-04 5F

SCHAER, F.
Technical-Economic Product Design as Typified by a Sewage Pumping Installation,
W76-05591 9-12 5D

SCHAFER, C. T.
Occurrence of Foraminifera, Molluscs and Ostracods Adjacent to the Industrialized Shoreline of Canso Strait, Nova Scotia,
W76-07621 9-15 5C

SCHAFER, E. W. JR.
Long-Term Effects of 4-Aminopyridine Exposure to Birds and Fish,
W76-03043 9-07 5C

SCHAFFER, P. C.
A Neutron Scattering Study of Water and Ionic Solutions - 1967, First Report,
W76-03260 9-07 1B

SCHAFFER, R. C.
Reservoir Impact Study,
W76-04501 9-10 6B

Sociological Analysis of Dam Impact: A Study of Twenty-Two Large Dams in Texas,
W76-05501 9-12 6B

SCHAFFER, W. H.
Economic and Environmental Aspects of Daily and Annual Dairy Manure Spreading Systems in a Small Watershed,
W76-07161 9-14 5D

SCHAFFERNOTH, T. J.
Ozone Disinfection Pilot Plant Studies at Laconia, New Hampshire,
W76-03688 9-08 5F

SCHAFFNER, C.
Characterization of Aromatic Hydrocarbons (Charakterisierung Aromatischer Kohlenwasserstoffe),
W76-01754 9-04 5A

SCHAFFRANEK, R. W.
Compiling Bathymetry for Flow Simulation Models,
W76-13064 9-24 7C

SCHAKE, L. M.
Odor Intensities at Cattle Feedlots,
W76-00919 9-02 5A

SCHALEKAMP, M.
The Water Supply System of a Large Urban Agglomeration in Switzerland (Die Wasserversorgung Einer Schweizerischen Gross-Agglomeration),
W76-08233 9-16 5F

SCHALENKAMP, M.
Microflocculation--Comparative Experiments Between Single and Double Layer Filters with Iron and Aluminum Sulfate (Microflockung--Vergleichsversuche Zwischen ein-und Zweischicteiltern mit eisen-und Aluminumsulfat),
W76-09206 9-17 5F

SCHANZ, F.
The Effect of Bacterial Substances on the Growth of Two Cladophoraciae in Pure Culture, (In German),
W76-06779 9-13 5C

SCHAPP, H.
Cathodic Inner and Outer Protection for a Double Syphon for Waste Water (Kathodischer Innen-und Aussenschutz Fuer Einen Abwasser-Doppeldueker),
W76-05584 9-12 5D

SCHAPPERT, H. J. V.
Carbon Dioxide Evolution from Virgin and Cultivated Soil as Affected by Management Practices and Climate,
W76-06003 9-12 2G

SCHARPF, R. F.
Conifer Damage and Death Associated with the Use of Highway Deicing Salt in the Lake Tahoe Basin of California and Nevada,
W76-07796 9-15 5C

SCHASTLIVENKO, YE. D.
On the Applicability of the BOD Parameter to the Characterization of Coking Plant-Generated Effluents (K voprosu o priyemlemosti pokazatelva BPK dlya kharakteristiki stochnykh vod koksokhimicheskikh zavodov),
W76-07532 9-15 5D

SCHATZKI, T. F.
Source Identification of Oil Spills by Pattern Recognition Analysis of Natural Elemental Composition,
W76-02397 9-05 5A

SCHAUMBURG, F. D.
Environmental Effects of Advanced Wastewater Treatment at South Lake Tahoe,
W76-03828 9-08 5D

SCHECHTER, H.
Inactivation of Viruses and Bacteria by Ozone,
W76-00119 9-01 5F

SCHEFER, W.
The Control of Environmental Problems in the Swiss Textile Refining Industry (Die Bewaeltigung Von Umweltproblemen in der Schweitzerischen Textileveredelungsindustrie),
W76-06959 9-14 5D

SCHEIBACH, R. B.
Evaluation of Geothermal Activity in the Truckee Meadows, Washoe County, Nevada,
W76-01683 9-04 5B

SCHEIBE, C.
Light Dependent DDT-Effect on Microalgae, (In German),
W76-07622 9-15 5C

SCHEIER, A.
A Discussion of the Effects of Certain Potential Toxicants on Fish and Shellfish in the Upper Delaware Estuary,
W76-10352 9-19 5C

SCHEINER, D.
Determination of Ammonia and Kjeldahl Nitrogen by Indophenol Method,
W76-09201 9-17 5A

SCHELENZ, R.
The Effect of Preparation on the Mercury Content of Fish and Mushrooms, (In German),
W76-11546 9-21 5A

SCHELL, I. I.
On a Thermal Lag in the North Atlantic Ocean During a Climatic Change,
W76-08127 9-16 2L

SCHELL, W. J.
Study of Crosslinked Polymers for Desalination,
W76-03147 9-07 3A

SCHELL, W. R.
Sedimentation Rates and Mean Residence Times of Stable Pb and 210Pb in Lake Washington, Puget Sound Estuaries and A Coastal Region,
W76-07093 9-14 5B

SCHELLENBERG, H. D.
Identification, Measurement, and Incorporation of Environmental Quality Objectives in Natural Resource Development,
W76-08101 9-16 6B

SCHELSKE, C. L.
Storm Induced Relationships Among Chemical Conditions and Phytoplankton in Saginaw Bay and Western Lake Huron,
W76-11282 9-21 5C

SCHELTEMA, W.
Puddling Against Dry Plowing for Lowland Rice Culture in Surinam: Effect on Soil and Plant, and Interactions with Irrigation and Nitrogen Dressing,
W76-07420 9-14 3F

SCHEMNITZ, S. D.
Base-Line Data on Everglades Soil-Plant Systems: Elemental Composition, Biomass, and Soil Depth,
W76-10314 9-19 5C

SCHENDEL, U.
Flood Water Analysis in the Area of the Tidal River Eider (Hochwasseranalyse im Raum der Binneneider),
W76-01428 9-03 2E

SCHER, J. A.
Industrial Wastewater Pumps,
W76-01661 9-04 8C

SCHERAGA, H. A.
Structure of Liquid Water. III. Thermodynamic Properties of Liquid Deuterium Oxide,
W76-02505 9-06 1A

SCHERB, K.
The Application of Pure Oxygen for Waste Water Purification with Activated Sludge (Die Anwendung von Reinem Sauerstoff bei der Abwasserreinigung mit Belebtem Schlamm),
W76-08004 9-15 5D

Energy Saving--An Important Consideration,
W76-09187 9-17 5A

Oxygen Measurement in Activation Basins with the Zuellig-02-Probe,
W76-08019 9-15 5A

SCHERFIG, J.
Environmental Quality Research, First Annual Report,
W76-09654 9-18 5C

Wastewater Treatment in a Pressure Pipe,
W76-00785 9-02 5D

SCHERLER, A.
Method for Eliminating Organic and Inorganic Bound Nitrogen from Domestic and Industrial Waste Water,
W76-09413 9-18 5D

SCHERMERHORN, R. W.
Boise Post-Audit Study, Plan of Study Subproject Report,
W76-02373 9-05 6B

SCHERTLER, R. J.
Measurement of Lake Ice Thickness with a Short-Pulse Radar System,
W76-11753 9-22 7B

SCHERZ, J. P.
Aircraft and Satellite Monitoring of Water Quality in Lake Superior Near Duluth,
W76-02051 9-05 5A

SCHETZ, J. A.
Penetration and Mixing of Heated Discharges into Waterways,
W76-08926 9-17 5B

SCHEXNAYDER, N. J.
Lake Stream Contrversy: A Final Decision,
W76-00927 9-02 6E

SCHICK, A. P.
Geomorphology and Climatology of Arid Watersheds,
W76-13135 9-24 2A

SCHICK, P. E.
Process for Treating Pulp,
W76-02773 9-06 5D

SCHIEFER, K.
Environmental Monitoring: A New Requirement for the Mining Industry,
W76-00037 9-01 5A

SCHIEFFER, G. W.
An Investigation of Three Methods for the Determination of Sub-micromolar ion Concentrations in Water,
W76-11331 9-21 5A

SCHIELE, L. H.
Plant Water Stress Criteria for Irrigation Scheduling,
W76-13024 9-24 2G

SCHIEMANN, D. A.
Evaluation of Pfizer Selective Enterococcus and KF Media for Recovery of Fecal Streptococci from Water by Membrane Filtration,
W76-11628 9-22 5A

SCHIERHOLZ, P. M.
Population Balance Use in Dilute Impurity Problems,
W76-12914 9-24 5B

SCHIFFERS, A.
Progress with the Decarbonization Processes (Fortschritte in der Verfahrenstechnik der Entcarbonisierung),
W76-01545 9-04 5F

SCHILLER, E. J.
Hydraulic Jump in a Rough Channel,
W76-00311 9-01 8B

SCHILLING, K. E.
Water Supply for the Greater New York Metropolitan Area,
W76-10983 9-20 6B

SCHILLINGER, J.
Microbiology and Chemistry Studies of Water Quality Factors in a Watershed Used for Municipal Supply and Waste Disposal,
W76-10263 9-19 5B

SCHIMMEL, S. C.
Effects of Aroclor 1016 on Embryos, Fry, Juveniles, and Adults of Sheephead Minnows (Cyprinodon Variegatus),
W76-02389 9-05 5C

SCHINDEWOLF, U.
Process for the Environmentally Favorable Destruction of Solid and/or Liquid Cyanide Waste,
W76-08208 9-16 5D

SCHINDLER, D. W.
The Biogeochemistry of Phosphorus in an Experimental Lake Environment: Evidence for the Formation of Humic-Metal-Phosphate Complexes,
W76-06203 9-13 5C

Gas-Exchange Rates in a mall Lake as Determined by the Radon Method,
W76-04219 9-09 5B

SCHINDLER, J. E.
Mobilization of Mercury from Freshwater Sediments by Humic Acid,
W76-10294 9-19 5C

SCHINK, D. R.
Processes Affecting the Concentration of Silica at the Sediment-Water Interface of the Atlantic Ocean,
W76-00304 9-01 2L

Quantitative Estimates of Biological Mixing Rates in Abyssal Sediments,
W76-00010 9-01 2L

SCHISLER, L. C.
New Methods Under Investigation for the Utilization of Fish Solubles, A Fishery Byproduct, as a Means of Pollution Abatement,
W76-04736 9-10 5G

SCHLAMP, R. J.
A Numerical Investigation of the Efficiency with Which Simple Columnar Ice Crystals Collide with Supercooled Water Drops,
W76-04679 9-10 2B

SCHLEGEL, D. P.
Rain Dance Doesn't Work Here Anymore, or Water Use and Citizen Attitudes Towards Water Use in Albuquerque, New Mexico,
W76-05016 9-11 6B

SCHLEICHER, J.
Is Your Pump a Candidate for Inefficiency.,
W76-09352 9-17 3F

SCHLENKER, G.
Response of Perch and Their Forage to Thermal Discharges in Lake Ontario,
W76-02015 9-05 5C

SCHLEUSENER, R. A.
Cloud Seeding to Enhance Summer Rainfall in the Northern Plains,
W76-06612 9-13 3B

SCHLICHTER, D.
The Importance of Dissolved Organic Compounds in Sea Water for the Nutrition of Anemonia Sulcata Pennant (Coelenterata),
W76-10071 9-19 5C

SCHLICHTING, H. E. JR.
Viability of Algae in the Digestive Tracts
Two Cyprinodontids,
W76-04149 9-09

SCHLINTZ, J. H.
Reclamation of Gas Turbine Waste Heat
Sludge Drying,
W76-11268 9-21

SCHLOSSER, E. H.
ERTS-1 Data in Support of the National
gram of Inspection of Dams,
W76-02029 9-05

Landsat, A Satellite Surface Water Divi
Rod,
W76-02162 9-05

SCHLOTTMANN, A.
Analysis of Theories and Methods for Estir
ing Benefits of Protecting Urban Flood Plair
W76-01595 9-04

SCHLOUGH, D. A.
Properties of Solids and Liquids from Stac
Manure,
W76-07197 9-14

Runoff Control Systems for Concrete D
Cattle Yards,
W76-01039 9-03

SCHLUNGBAUM, G.
Contribution on the Knowledge of the Org
in the Coastal Waters of the GDR: V.
Variability of the Chemical Oxygen Consu
tion at Selected Stations of the Waters in
Shallow Inlets to the South of the Zingst Pe
sula During the Synoptic Investigation in
(In German),
W76-12916 9-24

SCHMER, F. A.
Remote-Sensing Techniques for Determi
Water Table Depths in Irrigated Agriculture
W76-02160 9-05

Remote Sensing Techniques for Evaluatio
Soil Water Conditions,
W76-01067 9-03

SCHMID, L. A.
Swine Waste Digestion Enhancement
Nutrient Separation,
W76-10128 9-19

Treatment and Ultimate Disposal of C
Feedlot Wastes,
W76-01876 9-04

Use of Cattle Feedlot Runoff in Crop Pro
tion,
W76-03559 9-08

SCHMIDT, A.
Inventory and Cataloging of Sport Fish
Sport Fish Waters in Southeast Alaska,
W76-01623 9-04

SCHMIDT, B. G.
Industry Candidates and General Location
Artificial Industrial-Port Islands,
W76-09377 9-17

SCHMIDT, C. C.
A Frazil Ice Concentration Measuring Sy
Using a Laser Doppler Velocimeter,
W76-01850 9-04

HMIDT, C. J.
Demonstrated Technology and Research Needs for Reuse of Municipal Wastewater,
W76-00692 9-02 5D

Municipal Wastewater Reuse in the U.S.,
W76-02189 9-05 5D

HMIDT, H.
Stability of Lignins in Sulfite Mill Wastewaters to Biochemical Oxidation (Zur Stabilitaet von Sulfitzellstoff- abwasserligninen gegenueber biochemischer Oxydation),
W76-02478 9-05 5D

HMIDT-HOLTHAUSEN, H. J.
Some Critical Views of Selected Processes for the Biological Treatment of Sewage,
W76-09457 9-18 5D

HMIDT, K. D.
Monitoring Groundwater Pollution,
W76-10659 9-20 5A

Regional Sewering and Groundwater Quality in the Southern San Joaquin Valley,
W76-00190 9-01 5B

Salt Balance in Groundwater of the Tulare Lake Basin, California,
W76-02751 9-06 4B

HMIDT, O. J.
Water Quality Management for Metropolitan Kansas City,
W76-06323 9-13 5G

HMIDT, P. W.
Reconnaissance Map Showing Relative Amounts of Soil and Bedrock in the Mountainous Part of the Morrison-Evergreen Quadrangles and Adjoining Areas to the West in Jefferson County, Colorado,
W76-09825 9-18 7C

HMIDT, R. H. JR.
The Climate of Chihuahua, Mexico,
W76-01703 9-04 2B

HMIDT, R. K.
How to Meet Water Cleanup Deadlines,
W76-10862 9-20 5D

HMIED, R. L.
Environmental Implications of Maintenance and Improvement of the Gulf Intracoastal Waterway in Texas,
W76-12390 9-23 5G

HMIEDEL, G.
Studies Concerning Improvement of Waste Water Treatment in the Nickel Plant Aue (Untersuchungen Zur Verbesserung Der Abwasserbehandlung in Der Nickelhuette Aue),
W76-07755 9-15 5D

HMISSEUR, W. E.
Economic Evaluation of Proposed Water Conservation Practices on Established Irrigation Districts: A General Methodology and Application to Three Districts in Oregon,
W76-08431 9-16 3F

Water Conservation and Irrigated Agriculture,
W76-09236 9-17 3F

HMIT, F. L.
Diffused Air in Deep Tank Aeration,
W76-10226 9-19 5D

Oxygen Transfer Efficiency in Deep Tanks,
W76-03691 9-08 5D

SCHMITT, R. G.
The Hawaiian Archipelago Defining the Boundaries of the State,
W76-07818 9-15 6E

SCHMITT, R. P.
U.S. Army Mobility Equipment Research and Development Command Environmental Pollution Abatement Program,
W76-12651 9-23 5D

SCHMITY, W.
Purification of Industrial Waste Water Containing Oil, Fat and Solvents with Improved Separating Agents (Reinigung Von Oel, Fettund Loesungsmittelhaltigne Industrieabwaessern Mit Verbesserten Trennmitteln).
W76-02796 9-06 5D

SCHMITZ, J. E.
On Entrainment and Diffusion in a Gulf of Mexico Anticyclonic Ring,
W76-09723 9-18 2L

SCHMITZ, W.
Expedient Technique of Permanent Observations -- An Indispensable Tool on Studying the Limnology of Rivers,
W76-09106 9-17 7B

SCHMUGGE, T. J.
Classifying Storm Runoff Potential with Passive Microwave Measurements,
W76-01306 9-03 7B

Results of Soil Moisture Flights During April 1974,
W76-13178 9-24 2G

The Utility of Surface Temperature Measurements for the Remote Sensing of Surface Soil Water Status,
W76-00305 9-01 2G

The Utility of Surface Temperature Measurements for the Remote Sensing of Surface Soil Water Status,
W76-01121 9-03 2G

SCHNARE, D. W.
EPA Standards: Health or Headache,
W76-06489 9-13 5G

SCHNEIDER, A.
Pretreatment Provides Constant Effluent Quality,
W76-07513 9-15 5D

SCHNEIDER, A. D.
Efficient Reservoir Design for Playas of the Southern High Plains,
W76-04296 9-09 3B

Reduced Irrigation Tailwater Runoff for Increased Water-Use Efficiency,
W76-13008 9-24 3F

SCHNEIDER, C. W.
North Carolina Marine Algae. VI. Some Ceramiales (Rhodophyta), Including a New Species of Dipterosiphonia,
W76-13025 9-24 5C

SCHNEIDER, D. L.
A Procedure for Analysis of Amercium in Marine Environmental Samples,
W76-08611 9-16 5A

SCHNEIDER, F. H.
Efficient, Nonpolluting Ethylbenzene Process,
W76-05498 9-11 5D

SCHNEIDER, G.
Boron Toxicity in Red Pine Following Municipal Waste Water Irrigationrua.
W76-05177 9-11 5C

SCHNEIDER, H.
Disinfection of Sludge and Waste-Water by Irradiation with Electrons of Low Accelerating Voltage,
W76-09521 9-18 5D

An Electron Accelerator with Electrons of Low-Accelerating Voltage for Irradiating Sewage Sludge and Waste Water,
W76-09539 9-18 5D

Trace Element, Mineralogy, and Size Distribution of Suspended Material Samples from Selected Rivers in Eastern Kansas,
W76-05606 9-12 5B

SCHNEIDER, J.
The Protection of the Environment and World Public Order: Some Recent Developments,
W76-04329 9-09 6G

SCHNEIDER, M. J.
Aquatic Physiology of Thermal and Chemical Discharges,
W76-08880 9-17 5C

A Comparative Evaluation of the Weiss Saturometer,
W76-03774 9-08 5A

Effects of Thermal and Chemical Discharges from Nuclear Power Plants,
W76-10051 9-19 5C

Preliminary Studies on the Effect of Fatigue on Thermal Tolerance of Rainbow Trout,
W76-03475 9-07 5C

SCHNEIDER, P. A. JR.
Hydrology of the South Platte River Valley, Northeastern Colorado,
W76-03398 9-07 4B

SCHNEIDER, P. E. M.
Waste-Product Pollution of Bodies of Water and Waste-Water Purification,
W76-03352 9-07 5B

SCHNEITER, D.
Meteorological Influences of Atmospheric Cooling Systems as Projected in Switzerland,
W76-04814 9-10 5B

SCHNELL, R.
Heterogeneous Ice Nucleation in the Presence of Aliphatic Amines and Ammonia,
W76-10716 9-20 3B

SCHNELLER, J.
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W76-06745 9-13 2I

SCHNESE, W.
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W76-10817 9-20 5C

SCHNITKER, D.
The Direct Titration of Water-Soluble Sulfide in Estuarine Muds of Montsweag Bay, Maine,
W76-07415 9-14 5A

SCHNOCK, G.
Rainfall Measurements Above and in the Canopy of a Mixed Oak Forest,
W76-00583 9-02 2B

SCHNOOR, J. L.
Improving Mercury (II) Removal by Activated Carbon,
W76-05330 9-11 5D

SCHOENEBERGER, P. J.
Sediment Yields from Roadsides: An Application of the Universal Soil Loss Equation,
W76-12206 9-23 4C

SCHOENFELDER, H.
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W76-01436 9-03 5D

SCHOEPFLE, B. O.
Process for Electrolysis of Brine,
W76-09053 9-17 5D

SCHOETTGER, R. A.
Acquisition and Culture of Research Fish: Rainbow Trout, Fathead Minnows, Channel Catfish, and Bluegills,
W76-00680 9-02 5G

SCHOETTLER, U.
Elimination of Trace-Elements by Slow-Sand-Filtration (Eliminierung Von Spurenmetallen Durch Langsamsandfilter),
W76-12616 9-23 5D

SCHOFIELD, E. A.
Effects of Petroleum Pollutants on Arctic Microbial Populations,
W76-09909 9-18 5C

SCHOFIELD, J. W.
Instrumental Methods of Monitoring Organic Pollution,
W76-06933 9-14 5A

SCHOLL, D. G.
Soil Wettability and Fire in Arizona Chaparral,
W76-00698 9-02 2G

SCHOLL, J. P.
A Recirculation System for Experimental Aquaria,
W76-07972 9-15 7B

SCHOLL, R. L.
Environmental Factors Affecting the Strength of Walleye (Stizostedion Vitreum Vitreum) Year-Classes in Western Lake Erie, 1960-70,
W76-03653 9-08 5C

SCHOLTZ, A. T.
Experimental Confirmation of the Olfactory Hypothesis with Homing, Artificially Imprinted Coho Salmon (Oncorhynchus Kisutch),
W76-08439 9-16 5C

SCHONBORN, W.
Use of Sewage Sludge as Fodder,
W76-09554 9-18 5D

SCHONEMAN, D. F.
Impact of Nitrate Fertilizer Restrictions on Salt River Project and Roosevelt Water Conservation District Growers,
W76-01114 9-03 5C

SCHOOF, R. R.
On-Site Runoff Depletion at Three Impoundments,
W76-08122 9-16 4A

SCHOOL, D. G.
Soil Moisture Flux and Evapotranspiration Determined from Soil Hydraulic Properties in a Chaparral Stand,
W76-07083 9-14 2G

SCHOOLEY, A. H.
Simple Method for Measuring Relative Humidity, Water and Air Temperatures within a Few Millimeters of Wind-Generated Water Waves,
W76-00310 9-01 7B

SCHOOR, W. P.
Problems Associated With Low-Solubility Compounds in Aquatic Toxicity Tests: Theoretical Model and Solubility Characteristics of Aroclor 1254 in Water,
W76-03052 9-07 5A

SCHOPP, R. D.
Flood of July 21, 1975 in Merger County, New Jersey,
W76-04986 9-10 2E

SCHOTTMAN, R. W.
Management of Irrigation for Disposal of Feedlot Runoff in Cold Climates,
W76-07194 9-14 5D

SCHOUMAKER, F.
Stability Analysis of an Effluent Charge and the 'Polluters Pay' Principle,
W76-06623 9-13 5G

SCHRANTZ, J.
Big Savings with Reverse Osmosis and Acid Copper,
W76-05493 9-11 5D

SCHRECK, C. B.
Dissolved Oxygen Depletion in Static Bioassay Systems,
W76-00869 9-02 5A

SCHRECKER, G. O.
Atmospheric Dispersion of Cooling-Tower Blowdown,
W76-08853 9-17 5B

Measurement and Interpretation of Drift-Particle Characteristics,
W76-04823 9-10 5A

Prediction and Measurement of Airborne Particulate Concentrations from Cooling-Device Sources and in the Ambient Atmosphere,
W76-04824 9-10 5A

SCHREGARDUS, D. R.
Ohio River Cooling Water Study,
W76-10414 9-19 5C

SCHREIBER, A.
Method for Biologically Treating Sewage and an Installation for Carrying out the Method,
W76-09047 9-17 5D

Process for Physically and Biologically Purifying Sewage,
W76-07444 9-14 5D

SCHREIBER, B.
First Results on Artificial Reproduction of Bass, Morone Labrax (L.), Reared in Brackish Water, (In Italian),
W76-07298 9-14 2L

Method for Biologically Treating Sewage and an Installation for Carrying out the Method,
W76-09047 9-17 5D

Process for Physically and Biologically Purifying Sewage,
W76-07444 9-14 5D

SCHREIBER, E.
Process for Physically and Biologically Purifying Sewage,
W76-07444 9-14 5D

SCHREIBER, H. A.
Time-Related Changes in Water Quality of Stock Tanks of Southeastern Arizona,
W76-02233 9-05 5

SCHREIBER, J. D.
Dissolved Nutrient Losses in Storm Runoff from Five Southern Pine Watersheds,
W76-12172 9-23 5

Dissolved Nutrient Losses in Storm Runoff from Five Southern Pine Watersheds,
W76-12436 9-23 5

SCHREIBER, M.
Lakes and Wisconsin's Future,
W76-02652 9-06 6

SCHRENK, W. T.
Accumulation of Mercury by Fish of the Little Piney River and Mill Creek,
W76-07670 9-15 5

SCHREUDER, H. T.
Coniferous Stands Characterized with the Weibull Distribution,
W76-02276 9-05

SCHREURS, R. L.
Efficient Wells Save Energy and Reduce Cost
W76-05563 9-12

Use of Formation Stabilizer - A Valuable Technique,
W76-05564 9-12

SCHRIEBER, C. F.
Continued Studies on the Use of a Mixed Chromate-Phosphate Inhibitor in Desalination Service: Part Two,
W76-03143 9-07

Desalination Materials Manual,
W76-06801 9-14

Relationships of Corrosion Rates to Water Chemistry in the Freeport Test Bed Plant,
W76-03192 9-07

Sea Water Corrosion Test Program: Part Four
W76-03146 9-07

Sea Water Corrosion Test Program: Part Three
W76-03145 9-07

SCHROEDER, E. D.
Activated Sludge, (Literature Review),
W76-12675 9-23

Another Look at the NRC Formula,
W76-00368 9-01

Biological Treatment of Winery Stillage,
W76-04731 9-10

Mass Transfer Limitations on Trickling Filter Design,
W76-12608 9-23

CHROEDER, F. J.
Statistical Study of Phosphorus Removal in Wisconsin,
W76-07146 9-14 5A

CHROEDER, G. L.
Some Effects of Stocking Fish in Waste Treatment Ponds,
W76-02326 9-05 5C

Wastewater Utilization in Integrated Aquaculture and Agriculture Systems,
W76-03543 9-08 5D

CHROEDER, H. J. JR.
Pesticide Residue Dynamics in a Forest Ecosystem: A Compartment Model,
W76-05946 9-12 5B

CHROEDER, J. P.
Preventing Water Pollution from Turkey Operations,
W76-10535 9-20 5G

CHROEDER, P. B.
Thermal Studies on Tropical Marine Ecosystems in Puerto Rico,
W76-08872 9-17 5C

CHROEDER, P. J.
Engineering and Economic Study of Reverse Osmosis Brackish Water Desalting Plants, Design of 1-5 MGD Plants, Plants for High Product Recovery,
W76-08118 9-16 3A

Engineering and Economic Study of Reverse Osmosis Brackish Water Desalting Plants, Design of 3-25 MGD Low Pressure Plants,
W76-08119 9-16 3A

Engineering and Economic Study of Reverse Osmosis Sea Water Desalting Plants, Design of 1-10 MGD Seawater Plants,
W76-08284 9-16 3A

CHROEDER, T. A.
Meteorological Aspects of the Oahu Flood of 19 April 1974,
W76-10807 9-20 2B

CHROEER, H. E. F.
The Effect of Domestic Waste Water on the Distribution of Gammarus Pulex L. and Gammarus Fossarum Koch in a Sub-Alpine Mountain Stream in Hessen, (In German),
W76-12304 9-23 5C

CHROT, J. R.
Methodology for Application of Adenosine Triphosphate Determination in Wastewater Treatment,
W76-03232 9-07 5D

CHUBEL, J. R.
Effects of Tropical Storm Agnes on the Suspended Solids of the Northern Chesapeake Bay,
W76-03884 9-08 2L

Fine Particles and Water Quality in the Coastal Marine Environment,
W76-11612 9-21 5B

Hatching Success of Blueback-Herring and Striped-Bass Eggs with Various Time vs. Temperature Histories,
W76-02008 9-05 5C

Some Comments on the Thermal Effects of Power Plants on Fish Eggs and Larvae,
W76-07489 9-15 5C

Thermal Effects of Power Plant Entrainment on Survival of Fish Eggs and Larvae: A Laboratory Assessment,
W76-12769 9-24 5C

SCHUBERT, G. H.
Effect of Thinning on the Foliage and Forest Floor Properties of Ponderosa Pine Stands,
W76-09474 9-18 4A

SCHUBERT, R. H. W.
The Detection of Bacillus Spores in the Context of Hygienic Water Evaluation,
W76-03662 9-08 5A

A Method for the Determination of Toxicity of Pollutants in Water and Effluent to Bacteria (Eine Methode Zur Bestimmung der Bakterientoxizitaet von Schadstoffen in Wasser und Abwasser),
W76-01292 9-03 5A

SCHUCK, E. A.
Design of Pollutant Oriented Integrated Monitoring Systems,
W76-11238 9-21 7B

SCHUELLER, G. I.
On the Risk Assessment of Offshore Structures,
W76-09373 9-17 5G

SCHUKNECHT, B.
Nitrates in Wisconsin Ground Water,
W76-03803 9-08 5B

SCHULER, V. J.
Experimental Studies in Guiding Marine Fishes of Southern California with Screens and Louvers,
W76-08659 9-16 8I

SCHULTE, E. E.
Manage Manure for Its Value,
W76-03969 9-08 5E

SCHULTE, F. J.
The Study of Ground Water Movement in Selected Areas of North Dakota,
W76-02628 9-06 2F

SCHULTS, D. W.
A Six-Year Water, Phosphorus, and Nitrogen Budget for Shagawa Lake, Minnesota,
W76-08674 9-16 5C

SCHULTZ, D.
Boone Creek Oil Spill,
W76-00147 9-01 5C

SCHULTZ, D. M.
Measurements of Phytol in Estuarine Suspended Organic Matter,
W76-07974 9-15 5A

SCHULTZ, G. A.
Accuracy of Reservoir Inflow Forecasts Based on Radar Rainfall Measurements,
W76-09574 9-18 2B

Comparison of Required Reservoir Storages Computed by the Thomas-Fiering Model and the 'Karlsruhe Model' Type A and B,
W76-12832 9-24 4A

SCHULTZ, G. K.
Streamflow in the Lake Ontario Drainage Basin, New York Part, 1972-73,
W76-04991 9-10 2E

SCHULTZ, H.
Advantages of Numerical Atmospheric Dispersion Calculations for Estimating Dispersal and Combination Effects of Stack Releases from the Nuclear Industry,
W76-09501 9-18 5A

SCHULTZ, J. R.
Egg-Processing Plant Wastes,
W76-08170 9-16 3E

SCHULTZ, N.
Restoration of a Eutrophicated Lake (Reither Sea, Tyrol, Austria), (In German),
W76-07309 9-14 5C

SCHULTZ, T. R.
The Effect of Development on Groundwater in the Parker Strip,
W76-02236 9-05 5B

SCHULTZ, V.
Selected Bibliography of Terrestrial, Freshwater, and Marine Radiation Ecology,
W76-06913 9-14 5C

SCHULTZ, W.
Replacement of Activated Sludge Secondary Clarifiers by Dynamic Straining,
W76-02662 9-06 5D

SCHULTZ, W. M. JR.
Property--Classifying Bodies of Water as Lakes or Streams,
W76-00931 9-02 2E

SCHULZ, E. F.
Determination of Urban Watershed Response Time,
W76-01339 9-03 4D

SCHULZ, H.
The Influence of the Surface Runoff of Heavy Rains on the Calculation of Sewers (Uber Den Einfluss Des Flachenabflusses Der Starkregen Auf Die Berechung Von Kanalisationen),
W76-10197 9-19 5D

SCHULZ, R. S.
Estimating Stock Water Use in Rural Water Systems,
W76-11696 9-22 3F

SCHULZE, J.
Accumulation and Eliminating Studies of Four Detergent Fluorescent Whitening Agents in Bluegill (Lepomis Macrochitus),
W76-00318 9-01 5A

Removal of Detergent Fluorescent Whitening Agents from Waste Water,
W76-05804 9-12 5D

SCHULZE-RETTMER, R.
Instrumentation for Analyzing TOD (Instrumentelle TSB-Analytik),
W76-09185 9-17 5A

SCHUMACHER, J. D.
A Seabed Drifter Study of Near-Bottom Circulation in North Carolina Shelf Waters,
W76-08350 9-16 2L

SCHUMAN, G. E.
Nitrate Movement and its Distribution in the Soil Profile of Differentially Fertilized Corn Watersheds,
W76-06401 9-13 5B

The Nitrogen Status Beneath Beef Cattle Feedlots in Eastern Nebraska,
W76-01381 9-03 5B

SCHUMAN, G. E.

Precipitation Nitrogen Contribution Relative to Surface Runoff Discharges,
W76-00729 9-02 5B

Sampling and Calculation Methods for Determining Quantities of Nitrogen and Phosphorus in Watershed Runoff,
W76-12372 9-23 5A

Sampling Procedures for Nitrogen and Phosphorus in Runoff,
W76-04681 9-10 5A

SCHUMANN, W.
Polyimide Membrane and Process for Making Same,
W76-04618 9-10 3A

SCHURER, K.
An Electronic Leaf Wetness Recorder,
W76-00569 9-02 2I

SCHURMANN, G.
Dosimetry at a High-Activity Co60 Waste Treatment Facility,
W76-09547 9-18 5D

SCHURR, K.
Calculated Yield of Sewage Lagoon Biomass, A Plan for Production, and some of the Problems Inherent in Using Biomass or Lagoon Water for Production of Food and Fiber,
W76-03549 9-08 5D

SCHUSTER, J. C.
Measuring Water Velocity by Ultrasonic Flowmeter,
W76-03749 9-08 8B

SCHUSTER, P. F. II.
Nuclear Ship Pollution: National and International Regulation and Liability,
W76-00921 9-02 6E

SCHUTZ, H. A. III
Diffused Surface Waters in Mississippi,
W76-06823 9-14 6E

SCHWAB, D. J.
A Normal Mode Method for Predicting Storm Surges on a Lake,
W76-10715 9-20 2H

SCHWAB, G. M.
A Model for the Study of Episodes in the Dispersion of a Conservative Pollutant in Lake Michigan,
W76-11442 9-21 5B

SCHWAB, G. O.
Deflection-Stiffness Characteristics of Corrugated Plastic Tubing,
W76-13018 9-24 4A

Drainage System Effects on Physical Properties of a Lakebed Clay Soil,
W76-09259 9-17 2G

Effect of Openings on Inflow into Corrugated Drains,
W76-13021 9-24 4A

Elongation Characteristics of Corrugated Plastic Tubing,
W76-01064 9-03 3F

Nutrient and Sediment Characteristics of Tile Effluent in Ohio,
W76-08121 9-16 5B

Sediment from Drainage Systems for a Heavy Soil,
W76-13001 9-24 3F

SCHWANTJE, R. S.
Development of a Prototype Airborne Oil Surveillance System, Final Report,
W76-09898 9-18 5A

SCHWARTZ, A. K. JR.
An Integrated Power Process Model for Ethylene Production,
W76-04554 9-10 5D

An Integrated Power Process Model of Water Use and Wastewater Treatment in Ammonia Production,
W76-01234 9-03 5D

SCHWARTZ, F. P.
Fluorescence Measurements of Carcinogenic and Polycyclic Aromatic Hydrocarbons in Water,
W76-11243 9-21 5A

SCHWARTZ, F. W.
Response Testing of Piezometers in Fractured Porous Media,
W76-03751 9-08 2F

SCHWARTZ, H. F.
Pollution of Surface Irrigation Waters by Plant Pathogenic Organisms,
W76-08230 9-16 5B

SCHWARTZ, K. J.
Swine Waste Lagoons as Potential Disease Reservoirs,
W76-07192 9-14 5B

SCHWARTZ, L. J.
Bacterial Populations in Lower Green Bay,
W76-11428 9-21 2H

The Effect of a Fossil Fuel Power Plant's Cooling Water System on the Water Quality of Green Bay, Wisconsin,
W76-11319 9-21 5B

SCHWARTZ, M.
Separation Processes Used for Pollution Control in the Pulp and Paper Industry,
W76-09340 9-17 5D

SCHWARTZ, M. M.
Weather Modification Operations in California, October 1, 1972 - September 30, 1973,
W76-01530 9-04 3B

SCHWARTZ, P.
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W76-07062 9-14 6A

SCHWARTZ, R. D.
The Use of Fluid Catalytic Cracking Catalyst in Activated Sludge Wastewater Treatment,
W76-12646 9-23 5D

SCHWARTZBROD, J.
Study of the Behaviour of Poliomyelitis Virus Type 1 in Different Hydrous Media, (In French),
W76-11569 9-21 5A

SCHWARTZBROD, L.
Study of the Behaviour of Poliomyelitis Virus Type 1 in Different Hydrous Media, (In French),
W76-11569 9-21 5A

SCHWARZ, F. K.
The Black Hills-Rapid City Flood of June 9-10, 1972: A Description of the Storm and Flood,
W76-02967 9-06 2E

SCHWARZ, G.
Possible Future Effects on the Population o
the Federal Republic of Germany of Gaseou
Radioactive Effluents from Nuclear Facilities,
W76-09499 9-18 5

SCHWARZ, H. E.
North Atlantic Regional Water Resource
Study,
W76-00072 9-01 6

Trouble in Paradise,
W76-00625 9-02 5

Water Resource Systems and Relations,
W76-01118 9-03 2

SCHWARZ, J. R.
Deep-Sea Bacteria: Growth and Utilization
Hydrocarbons at Ambient and in Situ Pressur
W76-10349 9-19 2

SCHWARZ, S.
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(Das Abwasserteichsystem Greifswal
Ladebow),
W76-09682 9-18 5

SCHWEIGER, J. S.
Procedure for Plutonium Analysis of Lar
(100 g) Soil and Sediment Samples,
W76-08613 9-16 5

SCHWEIZER, G.
Experiments on the Optimization of Sludge D
watering and on the Use of Bark and Sludge
the Brick Industry (Versuche Zur Optimieru
der Schlammentwaesserung und zur Verw
tung von Rinde und Schlamm in der Ziegel
dustrie),
W76-05704 9-12

SCHWEMMER, G. K.
Mapping and Identification of Oil on Water
the Use of an Airborne Laser System,
W76-10384 9-19

SCHWIESOW, W. F.
State Regulations Pertaining to Livesto
Feedlots,
W76-00451 9-01

SCHWING, C. M.
Self-Monitoring Procedures: Basic Laborato
Skills (164.6) Student Reference Manual,
W76-12377 9-23

SCHWINTZER, C. R.
Vegetation Changes in a Small Michigan B
from 1917 to 1972,
W76-06761 9-13

SCIFRES, C. J.
Secondary Succession Following Extended
undation of Texas Coastal Rangeland,
W76-06267 9-13

SCOGGINS, J. R.
Atmospheric Structure and Variability in Ar
of Convective Storms Determined from
Rawinsonde Data,
W76-12185 9-23

An Evaluation of Weather Modification Act
ties in the Texas High Plains,
W76-03104 9-07

SCORSA, M.
Application of Centrifuges. Dewatering
Sludges from Waterworks (Applicazione
Centrifughe. Disidratazione Di Fan
Provenienti Da Impianti Di Potabilizzazione)
W76-09008 9-17

SCOTT, A. G.
Flood Discharge of Streams in New Mexico as Related to Channel Geometry,
W76-12294 9-23 2E

Revised Estimates of Mean-Annual Runoff and Summary of Precipitation and Discharge Data for Post Headquarters Area, White Sands Missile Range, New Mexico,
W76-07131 9-14 7C

SCOTT, B. F.
Behaviour of Oil under Canadian Climatic Conditions Part 1. Oil on Water under Ice-Forming Conditions,
W76-06366 9-13 5G

Behaviour of Oil Under Canadian Climatic Conditions. Part 1. Oil on Water Under Ice-Forming Conditions,
W76-08365 9-16 5B

The Effect and Fate of Crude Oil Spilt on Two Arctic Lakes,
W76-00863 9-02 5C

Effect of Crude Oil on Populations of Bacteria and Algae in Artificial Ponds Subject to Winter Weather and Ice Formation,
W76-08453 9-16 5C

SCOTT, C. D.
Determination of Trace Organics in Municipal Sewage Effluents and Natural Waters By High-Resolution Ion-Exchange Chromatography,
W76-02507 9-06 5A

SCOTT, D. P.
An Assessment of Nuclear Power Plant Waste Heat Utilization for Freshwater Fish Farming,
W76-12682 9-24 5C

SCOTT, D. S.
Removal of Phosphates and Metals from Sewage Sludge,
W76-06375 9-13 5D

Removal of Phosphates and Metals from Sewage Sludges,
W76-01100 9-03 5D

SCOTT, J. C.
Water Availability of Monroe County, Alabama,
W76-12281 9-23 4A

SCOTT, K. C.
Preliminary Investigation of the Hydrologic Properties of Diatremes in the Hopi Buttes, Arizona,
W76-02239 9-05 4B

The Redistributional Consequences of Public Recreation Provision at the Potholes Reservoir--Columbia Basin Project, Washington,
W76-11168 9-21 6B

SCOTT, K. M. F.
The Trichoptera of the Sundays and Fish Rivers, Eastern Cape Province, South Africa,
W76-07417 9-14 5C

SCOTT, M.
Limnological Data Report for the Maine Department of Environmental Protection--U.S. Geological Survey Cooperative Lake Studies Project,
W76-02492 9-05 7C

SCOTT, P. K.
Structural Relations Determined From Interpretation of Geophysical Surveys: Woody Mountain Well Field, Coconino County, Arizona,
W76-02238 9-05 4B

SCOTT, R. A. JR.
Biological Control of Alligator Weed,
W76-01495 9-03 4A

SCOTT, R. H.
Status of Water Pollution Control in the Soviet Union,
W76-05714 9-12 5G

The Status of Water Pollution Control in the Soviet Union, (First Part),
W76-05483 9-11 5D

The Status of Water Pollution Control in the Soviet Union, (Second Part),
W76-05484 9-11 5D

SCOTT, W. D.
The Effect of Electrical Conductivity on the Growth of the Electric Field in a Thunderstorm,
W76-03113 9-07 2B

A Stochastic Electrical Model of an Infinite Cloud: Charge Generation and Precipitation Development,
W76-02404 9-05 2B

SCOTT, W. R.
Effects of Irrigation and Fertiliser on the Yields of 'Arawa', 'Aotea', and 'Karamu' Wheats,
W76-00151 9-01 3F

SCOTT, W. S.
The Effect of Road Deicing Salts on Sodium Concentration in an Urban Water Course,
W76-09218 9-17 5B

SCOTTER, D. R.
Liquid and Vapour Phase Transport in Soils,
W76-05409 9-11 2G

SCOTTON, J. W.
Directory of EPA, State and Local Environmental Quality Monitoring and Assessment Activities.
W76-10623 9-20 5G

SCRIVANI, E. P.
Processes Controlling the Dissolved Silica Distribution in San Francisco Bay,
W76-07107 9-14 5C

SCRIVEN, R. A.
United Kingdom Experience of the Physical Behaviour of Heated Effluents in the Atmosphere and in Various Types of Aquatic Systems,
W76-08863 9-17 5B

SCRIVNER, C. L.
Combined Daily Climatic Data and Dilute Solution Chemistry in Studies of Soil Profile Formation,
W76-03450 9-07 2G

SCUDDER, T.
Social Impacts of Integrated River Basin Development on Local Populations,
W76-05755 9-12 6A

SEABERGH, W. C.
Masonboro Inlet Fixed-Bed Model Evaluation,
W76-09957 9-18 8B

Modeling Sediment Movement for Masonboro Inlet,
W76-09956 9-18 2L

SEAGRAVES, J. A.
A Bargaining Approach for Programming Least-Cost Waste Treatment Along a River,
W76-01504 9-04 5D

SEALE, R. L.
Water and Energy Requirements to Mine, Process, and Reprocess Nuclear Fuels,
W76-00752 9-02 6D

SEARL, T. D.
Measurement and Characterization of Non-volatile Hydrocarbons in Ocean Water,
W76-10394 9-19 5B

SEARLE, L.
Models for Handling Solid Manure,
W76-01043 9-03 5E

SEARS, C. K.
Irrigation System Controller,
W76-13137 9-24 3F

SEARS, H. E.
Municipal Imposts and Levies for Ontario Water Utilities,
W76-01606 9-04 6C

SEBALD, J. F.
Site and Design Temperature Related Economics of Nuclear Power Plants with Evaporative and Non-Evaporative Cooling Tower Systems,
W76-12784 9-24 6G

SEBENIK, P. G.
Physicochemical Transformations of Sewage Effluent Releases in an Ephemeral Stream Channel,
W76-05018 9-11 5A

SECHET, J.
Experimental Study of the Purification of Effluents from the Manufacture of Bleached Bisulfite Pulp by Aeration Lagooning (Etude experimentale de l'epuration par lagunage aere de liqueurs bisulfitiques de pate de cellulose blanchie),
W76-05718 9-12 5D

SEDELL, J. R.
Decomposition and Disappearance of Organic Debris in Three Replicate Streams with Different Nitrate Input,
W76-02001 9-05 5B

SEDLAK, E.
Production Conditions in Trout Brooks of Beskid Mountains: Results of Research Carried out Within the Framework of the I.B.P. in the Years 1966 to 1971,
W76-06241 9-13 2E

SEDLAK, J. A.
Cationic Acrylamide-Styrene Copolymers and Flocculation of Sewage Therewith,
W76-09434 9-18 5D

SEDOVA, V. A.
Efficient Chemical Method for the Treatment of Zinc Manufacturing Plant Generated Waste Waters (Effektivnyy khimicheskikh sposob ochistki stochnykh vod tsinkovogo zavoda),
W76-08268 9-16 5D

SEE, G. G.
Development of Instrumentation for a Water Processing Element,
W76-11666 9-22 5D

SEE, J. B.
High-Gradient Magnetic Filtration of Steel Plant Waste Water,
W76-08710 9-16 5D

SEED, H. B.
Pore-Water Pressure Changes During Soil Liquifaction,
W76-13171 9-24 8D

Properties of Soil in the San Fernando Hydraulic Fill Dams,
W76-07219 9-14 8D

The Slides in the San Fernando Dams During the Earthquake of February 9, 1971,
W76-07220 9-14 8B

SEEGER, D. R.
Chlorination of Organics in Drinking Water,
W76-12881 9-24 5C

SEEGER, R.
Structure of Reverse Osmosis Membranes,
W76-04503 9-10 3A

SEEGERT, G. L.
The Toxicity of Chlorine to Freshwater Organisms Under Varying Environmental Conditions,
W76-12889 9-24 5C

SEEHORN, M. E.
Forest Management Impacts on Cold Water Fisheries,
W76-02274 9-05 4C

SEELY, E. H.
Floodwater Retarding Structure Yield Impact,
W76-12978 9-24 4A

SEELY, G. R.
Photooxidative Destruction of Organic Wastes,
W76-10472 9-19 5D

SEEMAN, P. A.
Effect of South Louisiana Crude Oil and No. 2 Fuel Oil on Growth of Heterotrophic Microorganisms, Including Proteolytic, Lipolytic, Chitinolytic and Cellulolytic Bacteria,
W76-03054 9-07 5C

SEEP, E.
Disposal of Domestic Wastewater by Hillside Sprays,
W76-01295 9-03 5E

SEESMAN, P. A.
Effects of Petroleum on Estuarine Bacteria,
W76-11814 9-22 5C

SEEVERS, P. M.
Use of Erts-1 Imagery to Interpret the Wind Erosion Hazard in Nebraska's Sandhills,
W76-01309 9-03 2J

SEGALL, B. A.
The Impact of Vacation Homes on National Forest Water Resources,
W76-11366 9-21 5G

SEGAR, D. A.
Some Considerations on Monitoring of Trace Metals in Estuaries and Oceans,
W76-10653 9-20 5A

SEGER, G. V.
Irrigation System Pivot Swivel,
W76-09866 9-18 3F

SEGOL, G.
Finite Element Mesh Gradation for Surface Waves,
W76-05919 9-12 8E

Numerical Simulation of Salt-Water Intrusion in Coastal Aquifers, Part 2,
W76-05011 9-11 5B

Transient Simulation of Saltwater Intrusion in Southeastern Florida,
W76-11689 9-22 2L

SEIBEL, E.
Lake and Shore Ice Conditions on Southeastern Lake Michigan in the Vicinity of the Donald C. Cook Nuclear Plant: Winter 1973-74,
W76-05664 9-12 2C

SEIBERT, D. L. R.
Effects of Copper on Natural Marine Phytoplankton Communities,
W76-08947 9-17 5C

The Replication of Biological Events in Enclosed Water Columns,
W76-08948 9-17 5C

The Replication of Biological Events in Enclosed Water Columns,
W76-09226 9-17 5C

SEIBOLD, E.
Current Related to Sediment Transport at the Ibero-Moroccan Continental Shelf,
W76-01491 9-03 2L

SEICHTER, P.
Study of Turbine Mixers for Flow-Through Flocculation Chambers (Vyzkum turbinovych michadel pro prutocne flokulacni komory),
W76-05703 9-12 5D

SEID-RZAEV, M. M.
Biology of the Carp in the Mingechaur Reservoir, (In Russian),
W76-07987 9-15 2H

SEIDEL, D.
The Final Stages of Some Small Ponds in SW Germany, (In German),
W76-07269 9-14 5C

SEIDEL, H. F.
Expanding a 1927 Water Plant for the 1970's,
W76-01558 9-04 5F

SEIFERT, J. A.
Traction-Driven Composite Sludge Raking Mechanism for Sedimentation Tanks,
W76-10206 9-19 5D

SEIFERT, K.
Water Quality Law in Federal Republic of Germany,
W76-12531 9-23 5G

SEIFERT, W. J. JR
Trickle Irrigation with Water of Different Salinity Levels,
W76-08550 9-16 3C

SEIITKURBANOV, S.
Wind-Solar Power Installations for Water Raising and Distillation, (In Russian),
W76-11524 9-21 3A

SEIM, W. K.
The Lethal and Sublethal Effects of a Zirconium Process Effluent on Juvenile Salmonids,
W76-03647 9-08 5C

SEIPT, W. R.
Waterhammer Considerations for PVC Pipeline in Irrigation Systems,
W76-01066 9-03 3F

SEITZ, M.
Water Plants of the World. A Manual for t
Identification of the Genera of Freshwa
Macrophytes,
W76-06745 9-13

SEIYAMA, T.
Ammonia Nitrogen Removal from Waste Wa
Effluents by Zeolite Ion Exchange and El
trolysis Combination (Zeoraito ni yoru i
kokan-denkai no kumiawase ni yoru hai
karano ammoniasei chisso jokyo),
W76-09023 9-17

SEJKORA, G. D.
Effect of Media Intermixing on Dual Media
tration,
W76-00223 9-01

SEKERKA, I.
Potentiometric Determination of Low Level
Simple and Total Cyanides,
W76-10030 9-19

SEKI, A. S.
State-of-the-Art of Geothermal Reservoir
gineering,
W76-07209 9-14

SEKI, H.
Decomposition of Particulate Organic Mater
in Tokyo Bay at Summer Stagnation Perio
1972,
W76-07406 9-14

SEKI, T.
Method of Treatment of Sludges With Size-
justed Carbon,
W76-05985 9-12

SEKIMOTO, K.
Instruments for Water and Sewage Treatm
Plants (Jogesuido keiso kiki),
W76-06347 9-13

SEKOULOV, I.
Possibilities and Limits of Extended W
Water Purification (Moeglichkeiten
Grenzen der Weitergehanded Abwas
reinigung),
W76-09683 9-18

SELBY, A. J.
A Method for Assessing Friction Losses f
Non-Newtonian Fluid, Such as Sewage Slu
under Laminar Flow Conditions,
W76-10009 9-19

SELBY, K. H.
Groundwater Pollution Control in an Indust
ized Part of the Trent Basin,
W76-02691 9-06

SELBY, M. J.
The Erodibility of Pumice Soils of the N
Island, New Zealand,
W76-09787 9-18

SELDMAN, N. N.
Cities Need Sewerless Toilets,
W76-10680 9-20

SELEGNY, E.
Water Transport Across Cation-Excha
Membrane. I. Experimental Technique.
fluence of the Concentration and Tempera
on the Water Transport Number,
W76-10620 9-20

SELF, L. S.
Toxicity of Agricultural Chemicals to
vivorous Fish in Korean Rice Fields,
W76-11095 9-20

SELIG, E. I.
The Water Pollution Control Act of 1972, Institutional Assessment, Enforcement, Volume I,
W76-10574 9-20 5G

The Water Pollution Control Act of 1972, Institutional Assessment, Enforcement Volume II,
W76-10575 9-20 5G

SELIG, E. T.
Capacitance Sensor for Soil Moisture Measurement,
W76-12457 9-23 2G

SELIGA, T. A.
Potential Use of Radar Differential Reflectivity Measurements at Orthogonal Polarizations for Measuring Precipitation,
W76-06927 9-14 2B

SELIGER, H. H.
Growth and Dissipation of Phytoplankton in Chesapeake Bay: I. Response to a Large Pulse of Rainfall,
W76-12572 9-23 5C

SELIGERSKAYA, A. P.
The Dependence of the Completeness of Nonferrous Heavy Metal Sedimentation from Waste Waters on the Properties of the Filtrating Fabric (Zavisimost' polnoty osazheniya tyazhelykh tsvetnykh metallov iz stochnykh vod ot svoystv fil'troval'noy tkani),
W76-02791 9-06 5A

SELIM, H. M.
Analytical Solution of the Equation for Transport of Reactive Solutes Through Soils,
W76-12450 9-23 2G

Water Flow Through a Multilayer Stratified Hillside,
W76-05134 9-11 2F

SELIM, M. S.
Screen Theory for Wells and Soil Drainpipes,
W76-00490 9-01 8B

SELITSKIY, G. A.
Chromium Removal from Wastewater by Electrocoagulation (Elektrokoagulyatsionnaya ochistka stochnykh vod ot khroma),
W76-07540 9-15 5D

SELL, W.
A Parametric Wave Prediction Model,
W76-08337 9-16 2L

SELLBERG, B.
The Rate of Spread of Fuel Oil No. 1,
W76-06677 9-13 5B

SELLECK, B. W.
Heavy Minerals in the Sands of Southern and Eastern Lake Ontario,
W76-11431 9-21 2J

SELLMANN, P. V.
Accumulating Snow to Augment the Fresh Water Supply at Barrow, Alaska,
W76-01323 9-03 2C

SEMA, S.
Method and Apparatus for Detecting the Degree of Contamination of Waste Water,
W76-03014 9-07 5A

SEMAKOVA, L. A.
Determination of Lignin in Effluents (Opredelenie lignina v stochnykh vodakh),
W76-11387 9-21 5A

SEMENOV, N. G.
Building Dams in Permafrost Regions,
W76-02925 9-06 8D

SEMENOV, V. P.
Control of Coagulant Recovery from Effluent Sediment (Kontrol' regeneratsii koagulyantov iz osadka ctochnykh vod),
W76-05725 9-12 5E

Method of Controlling the Process of Chemical Purification of Effluents (Sposob operataivnogo upravleniya protsessom khimicheskoi ochistki stochnykh vod),
W76-11389 9-21 5D

Process Control Method for the Chemical Purification of Wastewaters (Sposob operativnogo upravleniya protsessom khimicheskoy ochiskki stochnykh vod),
W76-07762 9-15 5D

SEMENYUK, V. E.
Carbohydrate Transformation in Wheat and Rye Plants Under Effect of Flooding in the Autumn-Winter Period, (In Russian),
W76-08307 9-16 3F

SEMINARA, M.
An Evaluation of Some Recreational, Demographic and Economic Impacts of Canyon Lake,
W76-05506 9-12 6B

SEMONIN, R. G.
A Hypothesis for Urban Rainfall Anomalies,
W76-11744 9-22 2B

SEMPLE, J. R.
Experiments Related to Directing Atlantic Salmon Smolts, Saimo Salar, Around Hydroelectric Turbines,
W76-07495 9-15 8I

SEMTNER, A. J. JR.
A Model for the Thermodynamic Growth of Sea Ice in Numerical Investigations of Climate,
W76-09722 9-18 2C

SEMUKHINA, G. V.
Determination of Tetramethylthiuram Disulfide (TMTD) in Water and Air by Colimetry, (In Russian),
W76-09590 9-18 5A

SENATORE, S. J.
Preliminary Design of a Diesel-Powered Vapor-Compression Plant for Evaporation of Seawater,
W76-06750 9-13 3A

SENDLEIN, L. V. A.
Limitations of the Electrical Resistivity Method in Landfill Investigations,
W76-01268 9-03 5B

SENECA, E. D.
Propagation of Spartina Alterniflora for Substrate Stabilization and Salt Marsh Development,
W76-01169 9-03 2L

SENEW, M. J.
A Methodology to Measure the Performance of the EPA Regional EIS Review Process,
W76-12583 9-23 6G

SENGER, H.
Changes in the Reactivity of the Photosynthetic Apparatus in Heterotophic Ageing Cultures of Scenedesmus Obliquus. II. Changes in Ultrastructure and Pigment Composition,
W76-13110 9-24 5C

Changes in the Reactivity of the Photosynthetic Apparatus in Heterotrophic Ageing Cultures of Scenedesmus Obliquus. I. Changes in the Photochemical Activities,
W76-13109 9-24 5C

Changes in the Reactivity of the Photosynthetic Apparatus in Heterotrophic Ageing Cultures of Scenedesmus Obliquus. III. Recovery of the Photosynthetic Capacity in Aged Cells,
W76-13111 9-24 5C

SENN, D. R.
Determination of Nitrate Ion at the Part Per Billion Level in Environmental Samples with a Continuous Flow Immobilized Enzyme Reaction,
W76-11636 9-22 5A

SEPHTON, H. H.
Determination of Surface Equilibria and Mass Transfer Rates in a Concurrent Flow Bubble Column,
W76-10632 9-20 5D

Development of Vertical Tube Foam Evaporation for Desalination,
W76-03256 9-07 3A

SEPPANEN, H.
Examination and Removal of Iron in Groundwater,
W76-05571 9-12 5B

SEQUEIRA, R.
Monsoonal Deposition of Sea Salt and Air Pollutants Over Bombay,
W76-10932 9-20 5B

SERAFIMOVICH, N. B.
Production of Macrophytes of Some Lakes in the Pskov Region, (In Russian),
W76-03245 9-07 5C

SERBAN, P.
A Mathematical Model of the 'Reservoir' Type Designed for Flood-Wave Modelling and Forecasting,
W76-12979 9-24 2A

SERCELJ, A.
A Late Holocene Pollen Diagram from Near Lake Tahoe, El Dorado County, California,
W76-03897 9-08 2I

SERCU, C. L.
Pollution Control Options Other Than Treatment,
W76-03837 9-08 5G

SEREBRENY, S. M.
ESIAC: A Data Products System for ERTS Imagery (Time-Lapse Viewing and Measuring),
W76-02056 9-05 7C

Study of Time-Lapse Processing for Dynamic Hydrologic Conditions,
W76-02713 9-06 4A

SERFATY, A.
Lead Nitrate Poisoning in the Carp (Cyprinus Carpio L.):Localization of the Pollutant in the Body, (In French),
W76-12251 9-23 5A

SERGEEV, A. N.
Experimental Research Data on Hygienic Evaluation of the Method of Magnetic Treatment of Water, (In Russian),
W76-03536 9-08 5C

SERGEEV, A. N.

Hygenic Evaluation of Ionic Composition of an Imitation of Desalinated Sea Water, (In Russian)
W76-11529 9-21 5C

Hygienic Assessment of the Flotation Reagent T-66 in the Water Bodies and its Maximum Permissible Concentration (Gigienicheskaya otsenka flotoreagenta T-66 v vode vodoemov i ego predel'no dopustimaya kontsentratsiya),
W76-03255 9-07 5C

SERGUNINA, L. A.
Drinking Water Purification in Industrially Manufactured Compact Installations of the Type 'Struya', (In English),
W76-08579 9-16 5F

SERKINA, R. A.
Zooplankton Formation in the Ocher Bay of the Votkinsk Reservoir, (In Russian),
W76-05274 9-11 2H

SERNS, S. L.
Age and Growth of Bluegill, Lepomis Macrochirus in Two Heated Texas Reservoirs,
W76-02318 9-05 5C

SERODES, J-B.
Study of Coagulation of Water by Fluorometry (Etude de la Coagulation des eaux par fluorometrie),
W76-03239 9-07 5F

SERRUYA, C.
N and P Distribution in Lake Kinneret (Israel) with Emphasis on Dissolved Organic Nitrogen,
W76-06268 9-13 5B

Phosphorus, Nitrogen, and the Growth of Algae in Lake Kinneret,
W76-05633 9-12 5C

SERVIZI, J. A.
Chemical Characteristics, Acute Toxicity and Detoxification of Foam in Two Aerated Lagoons,
W76-09295 9-17 5C

Dechlorination of Municipal Sewage Using Sulfur Dioxide,
W76-07715 9-15 5C

Disinfection, Dechlorination and Toxicity to Fish,
W76-11645 9-22 5C

SERYAKOVA, I. V.
Extraction of Metals by Neutral Sulfur-Containing Extractants, Part I, O-Isopropyl-N-Ethylthiocarbamate,
W76-03641 9-08 5A

SETHI, B. K.
Process for Reducing the Amount of Calcium Contained in Magnesium-Base Waste Sulfite Liquor by the Use of an Ammonium Compound and Additional Calcium,
W76-01669 9-04 5D

SETHURAMAN, V. V.
Color Removal by Clays, Kinetic Study of Adsorption of Cationic and Anionic Dyes,
W76-04791 9-10 5D

SETO, D.
Evaluation of the Barber - Colman Wetox Process for Sewage Sludge Disposal,
W76-04164 9-09 5D

SETSER, J. L.
Process and Equipment for Automatic Chemical-Biological Wastewater Treatment with Provisions for Recycle and Reuse,
W76-05955 9-12 5D

SETTLEMYRE, J. L.
Chemical and Sediment Budgets for a Small Tidal Creek, Charleston Harbor, S. C.,
W76-01511 9-04 5B

SEVER, C. W.
Deep Well Disposal of Wastewater,
W76-11617 9-21 5E

SEVERN, D. J.
Phosphorus Flux and Cycling in Estuaries,
W76-08689 9-16 5C

SEVUK, A. S.
Design of Storm Sewer Networks,
W76-02875 9-06 5D

Design of Storm Sewer Networks,
W76-03006 9-07 4A

SEVUMYAN, A. A.
Comparative Evaluation of Food Plants of the Ararat Cochineal Scale (Porphyrophora Hamelii) (In Russian),
W76-09406 9-18 2I

SEWELL, J. I.
Dairy Lagoon System and Groundwater Quality,
W76-07185 9-14 5B

SEWELL, R. J.
Controlling Sulfides in Sanitary Sewers Using Air and Oxygen,
W76-01877 9-04 5G

SEWELL, W. R. D.
Flood Loss Management in Developing Countries: A Model for Identifying Appropriate Strategies,
W76-05761 9-12 6A

The Potential Impact of Peak Load Pricing on Urban Water Demands: Victoria, British Columbia, A Case Study,
W76-01355 9-03 6D

Water Resources Planning and Policy-Making: Challenges and Responses,
W76-01360 9-03 6B

SEXTON, J. R.
Improved Techniques for Water Resource Systems Design,
W76-09624 9-18 4A

SEYMOUR, E. V.
Removal of Floating Pollutants,
W76-05533 9-12 5G

SEYMOUR, R. J.
Wave Induced Loads on Multi-Element Structures,
W76-10458 9-19 8B

SHAARAWI, E.
Operational Model for Predicting the Movement of Oil in Canadian Navigable Waters,
W76-09908 9-18 5B

SHABASON, L.
Pittsburgh Rainwater Analysis by Pixe,
W76-07555 9-15 5A

SHABMAN, L. A.
Flood-Hazard Effects on Residential Property Values,
W76-12529 9-23 6G

Land Prices in Flood Hazard Areas: Applyi Methods of Land Value Analysis,
W76-11112 9-21

A Legal-Historical Analysis of Navigation U Charges,
W76-12532 9-23

User Charges for Inland Waterways: A Revi of Issues in Policy and Economic Impact,
W76-08847 9-17

SHABUNIN, I. I.
Xanathate Removal From Waste Water,
W76-02794 9-06

SHACKLEY, P. E.
An Experiment of Faster Growth of Salm Salmo Salar (L.) in a Scottish Stream,
W76-01537 9-04

SHADE, J. W.
Monitoring Ground-Water Quality Near a S tary Landfill,
W76-06684 9-13

SHAFER, B. A.
Summary of Snow Survey Measurements Montana, 1922-1974,
W76-00291 9-01

SHAFER, W. H. JR.
Colorado River Bacteriological Survey: Pa Strip and Lake Havasu, May 25-29, 1973,
W76-04108 9-09

SHAFFER, F. B.
History of Irrigation and Characteristics Streamflow in Northern Nebraska,
W76-01589 9-04

Water Resources of Pierce County, Nebrask
W76-07598 9-15

SHAFFER, M. J.
Predicting Ionic Distributions in Large Columns,
W76-07234 9-14

SHAFFER, R. L.
Sludge Removal System,
W76-09416 9-18

Surface Skimming System,
W76-03512 9-08

SHAFFER, W. R.
Behavioural Thermoregulation and Act Patterns in the Green Sunfish, Lep Cyanellus,
W76-10883 9-20

SHAGA, N. I.
Some Regularities of Shoreline-Water D Distribution in Floodland Lakes of the L Amur, (In Russian),
W76-07315 9-14

SHAGA, V. S.
Some Regularities of Shoreline-Water D Distribution in Floodland Lakes of the L Amur, (In Russian),
W76-07315 9-14

SHAH, C. R.
Conformity of Groundwater Recharge Rat Tritium Method and Mathematical Modelli
W76-10700 9-20

SHAH, D.
Biological Effects of High-Energy Electro radiation of Municipal Sludge,
W76-09522 9-18

Prospects for High-Energy Electron Irradiation of Waste-Water Liquid Residuals,
W76-09538 9-18 5D

SHAH, D. B.
A Mathematical Model for Phosphorus Movement in Soils,
W76-03802 9-08 5B

Phosphorus Movement in Soils: Theoretical Aspects,
W76-05048 9-11 5B

Removal of Phosphorus and Nitrogen from Wastewater by Spray Irrigation of Land,
W76-12619 9-23 5D

SHAH, K. R.
Development of a Three-Dimensional Time-Dependent Flow Field Model,
W76-08328 9-16 2L

SHAH, N. J.
Environmental Monitoring from Spacecraft Data,
W76-08532 9-16 5A

A Technique for Correcting ERTS Data for Solar and Atmospheric Effects,
W76-02059 9-05 7C

SHAHANE, A. N.
Interdisciplinary Models of Water Systems,
W76-12516 9-23 6A

Role of Synthetic Time Series in Hydrometeorological Data Analysis,
W76-00891 9-02 2A

SHAHEEN, D. G.
Contributions of Urban Roadway Usage to Water Pollution,
W76-00696 9-02 5B

SHAIR, S.
Iron Bacteria and Red water,
W76-03640 9-08 5B

SHAKHNOVICH, B. M.
A New Method for the Purification of Sugar-Producing Plant-Generated Waste Waters at the BMA Enterprises (Novvy sposob ochistki stochnykh vod sakharnykh zavodov firmy BMA),
W76-02785 9-06 5D

SHAKHOVA, O. V.
The Effect of Surface Drainage and Subsequent Stand Cutting on Changes of the Grass-Moss Cover, (In Russian),
W76-02956 9-06 2I

SHALAEVA, N. M.
Invertebrate Fauna of the Lakes of the Lower Tareya River (Western Taimyr), (In Russian),
W76-11537 9-21 5C

SHALHEVET, J.
Aspects of Soil Salinity and Sodicity in Relation to Irrigation and Reclamation,
W76-13126 9-24 3C

SHALLOW, P. G. D.
Integrated Development of the Vardar/Axios River Basin,
W76-08082 9-15 4A

SHAMIR, U.
Forecasting Water Levels in Aquifers by Numerical and Semihybrid Methods,
W76-05686 9-12 2F

Identifying the Parameters of an Aquifer Cell Model,
W76-04555 9-10 2F

Optimal Operation of the Pumping Stations in the Kinnereth-Eshkol Section of the National Water Carrier,
W76-09629 9-18 4A

SHAMSUDDIN, Z. H.
Use of Waterhyacinths to Remove Nitrogen and Phosphorus from Eutrophic Waters,
W76-01148 9-03 5C

SHANE, J. M.
Reclamation of Wood-Chip Carrier Water,
W76-07206 9-14 5D

SHANE, R.
PH Profiles in a River System with Multiple Acid Loads,
W76-07235 9-14 5B

SHANHOLTZ, V. O.
Estimating Selected Parameters for the Kentucky Watershed Model from Watershed Characteristics,
W76-09852 9-18 2A

Factors Affecting Water Quality from Strip-Mined Sites,
W76-07582 9-15 5B

Finite Element Simulation of Flood Hydrographs,
W76-00303 9-01 2E

Models to Predict Environmental Impact of Mine Drainage on Streams,
W76-04944 9-10 5B

Preplanning Mining Operations to Reduce the Environmental Impact of Mine Drainage on Streams,
W76-06939 9-14 5G

Shale Chiseling-Effect on Water Yield,
W76-06924 9-14 3B

SHANI, B. M.
Skimming of Fresh Water Afloat Upon Salt Water,
W76-00405 9-01 4B

SHANKS, M. H.
Interaction of Plutonium with Complexing Substances in Soils and Natural Waters,
W76-08605 9-16 5B

SHANMUGASUNDARAM, S.
Pollution from Tanning Industry,
W76-00123 9-01 5D

SHANNON, E. E.
Effects of Detergent Formulation on Wastewater Characteristics and Treatment,
W76-03329 9-07 5D

Utilization of Alumized Red Mud Solids (Arms) For Phosphorus Removal,
W76-02520 9-06 5D

SHANNON, L. R.
Accumulation and Elimination of Dieldrin by Channel Catfish (Ictalurus Punctatus),
W76-05642 9-12 5C

SHAPIRO, J.
Bulking Control Made Easy - With Hydrogen Peroxide,
W76-12664 9-23 5D

SHARASHIDZE, N. M.
Water Regimen of Some Leaf-Bearing Evergreens in Connection with Their Overwintering at the Batumi Botanical Garden, (In Russian),
W76-00568 9-02 2I

SHARITZ, R. R.
Distribution of Radiocesium in Vegetation Along a Contaminated Stream,
W76-10300 9-19 5B

Ecology of Artificially Heated Streams, Swamps and Reservoirs on the Savannah River Plant, the Thermal Studies Program of the Savannah River Ecology Laboratory,
W76-08870 9-17 5C

Impact of Production-Reactor Effluents on Vegetation in a Southeastern Swamp Forest,
W76-03486 9-07 5C

Radiocesium Levels in Vegetation Colonizing a Contaminated Flood Plain,
W76-10298 9-19 5C

Seasonal Variation in Radiocesium Concentrations in Three Tree Species,
W76-10299 9-19 5C

SHARKAWY, M. A.
An Environmental Land Planning Approach--Case Study, Lily Lake Project,
W76-02649 9-06 6B

SHARKOV, YE. A.
Problems of Calculating the Thermal Radiation of Multilayered Structures of the Ice and Snow Types by Means of Oriented Graphs Using an Electronic Computer,
W76-04324 9-09 2C

SHARMA, D. R.
Effect of Depth and Salinity of Ground Water on Evaporation and Soil Salinization,
W76-06036 9-12 2D

SHARMA, G.
The Application of Step-Drawdown Pumping Tests for Determining Well Losses in Consolidated Rock Aquifers,
W76-02747 9-06 4B

SHARMA, G. N.
Aspects of Waterworks Pumping Plant Design,
W76-03324 9-07 8C

SHARMA, H. C.
Varietal Response of Peas to Irrigation and Interrow Spacing,
W76-06799 9-13 3F

SHARMA, K. D.
Studies on Aerobic Cultivation of Yeast to Reduce Pollution Potential of Distillery Wastes,
W76-04228 9-09 5D

SHARMA, M. L.
Interaction of Water Potential and Temperature Effects on Germination of Three Semi-Arid Plant Species,
W76-10185 9-19 2I

SHARMA, R.
Endemic Fluorosis in Punjab: I. Skeletal Aspect,
W76-12500 9-23 5C

SHARMA, R. K.
Studies on Evapotranspiration of Some Aquatic Weeds,
W76-10554 9-20 2D

SHARON, D.
Geomorphology and Climatology of Arid Watersheds,
W76-13135 9-24 2A

SHARON, S.
A Combined Model for Operating Irrigated Agricultural Systems Under Uncertainties,
W76-09634 9-18 3F

SHARP, J. H.
Photosynthetic Measurements in the Central North Pacific: The Dark Loss of Carbon in 24-Hour Incubations,
W76-08940 9-17 5C

SHARP, J. M.
The Offshore Ecology Investigation,
W76-09382 9-17 5G

SHARP, J. M. JR.
A Graphical Procedure for Classifying Aquifer Management Strategy,
W76-02159 9-05 4B

SHARP, T. R.
Standing Crops of Benthic Fauna in Marine Aquaculture Ponds Using Reclaimed Water,
W76-03574 9-08 5C

SHARPE, R.
Econometric Model to Aid in Urban Planning Decisions,
W76-07232 9-14 6A

SHARPE, W. E.
A Multidisciplinary Approach to Solving Community Water Problems,
W76-04391 9-09 10D

Timber Management Influences on Aquatic Ecosystems and Recommendations for Future Research,
W76-07151 9-14 5G

Water-Saving Devices: The State of the Art,
W76-06317 9-13 3D

SHATHMANN, H.
Evaluation of Anisotropic, Ionogenic Membranes (Diaflo UM-Series) for selective Removal of Divalent Cations and Anions from Brackish Water by Reverse Osmosis,
W76-03155 9-07 3A

SHATILOV, I. S.
The Water Supply System of Soil and Nitrogen Loss with Runoff Waters in Nonchernozem Areas, (In Russian),
W76-09794 9-18 2G

SHAVER, J. R.
Review of Standards and Other Information on Thermoplastic Piping in Residential Plumbing,
W76-11603 9-21 8G

SHAW, B. G.
The Anaerobic Digestion of Waste From an Intensive Pig Unit,
W76-01379 9-03 5D

SHAW, D. E.
The Growth Rates and Densities of Ice Crystals Between -3C and -21C,
W76-10697 9-20 2B

SHAW, D. R.
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W76-06454 9-13 4B

The Toxicity of Drilling Fluids, Their Testing and Disposal,
W76-08911 9-17 5D

SHAW, H. M.
Environmental Salinity: Its Failure to Influence Growth of Atlantic Salmon (Salmo Salar) Parr,
W76-03045 9-07 5C

SHAW, R. E. JR.
Training Opportunities and the Safe Drinking Water Act,
W76-03440 9-07 5F

SHAW, R. H.
Effect of Different Spring Soil Moisture Levels on Moisture Stress,
W76-09412 9-18 3F

SHAW, R. W. JR.
Toward a Quantitative Measure of the Quality of Life,
W76-05363 9-11 6A

SHAWLER, M. E.
Natural Biological Control of the Salt Marsh Mosquito in the Acid Mine Drainage Swamps in Western Kentucky,
W76-02433 9-05 5G

SHCHERBINA, M. A.
Physiological Evaluation of the Nutritional Value of Artificial Fish Feeds, (In Russian),
W76-09090 9-17 2I

SHEA, K. P.
Irrigation Without Waste,
W76-04531 9-10 3F

SHEA, T. G.
Wastewater Sludge Utilization and Disposal Costs,
W76-09773 9-18 5D

SHEAFFER, J. R.
Beneficial Recycling of Waste,
W76-00182 9-01 5D

SHEARER, G.
Fertilizer Application Rates and Nitrate Concentrations in Illinois Surface Waters,
W76-00290 9-01 5B

SHEARIN, K. K.
River Delta Computer Simulation Model (Simudelt),
W76-09954 9-18 2L

SHEARMAN, R. C.
Environmental and Cultural Preconditioning Effects on the Water use Rate of Agrostis Palustris Huds., Cultivar Penncross,
W76-12723 9-24 2I

SHEARMAN, R. J.
An Objective Rainfall Interpolation and Mapping Technique,
W76-07074 9-14 2B

SHEATH, R.
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W76-01157 9-03 5C

SHEATH, R. G.
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W76-00142 9-01 5C

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Summer,
W76-12938 9-24

SHEEHY, J. W.
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W76-12863 9-24

SHEETS, K. T.
Lawn, Farm, and Orchard Sprinklers,
W76-13158 9-24

Projectable Lawn Sprinkler,
W76-04598 9-10

SHEFELMAN, T. W.
Lower Waller Creek Master Improvem
Plan,
W76-11662 9-22

SHEFTEL, V. O.
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Polymers, (In Russian),
W76-03709 9-08

Hygienic Evaluation of Epoxy Composit
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sian),
W76-03561 9-08

Sanitary-Chemical Investigation of the Mi
tion of the Monomer from Caprolon
Water, (In Russian),
W76-12316 9-23

Use of the Method of Mathematical Desig
Experiment in Sanitary-Chemical Inves
tions of Epoxy Coatings, (In Russian),
W76-12393 9-23

SHEIKH, H.
Urban Stormwater Management Modeling
Decision-Making,
W76-00695 9-02

Urban Stormwater Management Modeling
Decision-Making,
W76-11599 9-21

SHEIKH, Y. M.
Applicability of the Technicon Autoanalyz
and II Systems for Shipboard Analysis of G
Lakes Water Samples,
W76-10497 9-19

SHELAT, R. N.
Salt Water Intrusion into Porous Media,
W76-00614 9-02

SHELDON, D.
The Operation of a Simplex Activated Slu
Pilot Plant in an Atmosphere of Pure Oxyge
W76-09669 9-18

The Operation of a Simplex Activated Slu
Pilot Plant in an Atmosphere of Pure Oxy
Part 2,
W76-12665 9-23

SHELDON, R. B.
Factors Affecting the Contribution
Epiphytic Algae to the Primary Productivit
an Oligotrophic Freshwater Lake,
W76-08357 9-16

SHELDON, W. W.
Elvers in Maine: Techniques of Local
Catching and Holding,
W76-04546 9-10

SHELEF, G.
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W76-09420 9-18 5D

Recent Advances in the Treatment of Solid Wastes,
W76-09553 9-18 5D

SHELL, G.
Testing and Application of Static Aerators,
W76-11372 9-21 5D

SHELL, G. L.
Aeration Method and Apparatus,
W76-00592 9-02 5D

Phosphorus Removal from Wastewater,
W76-08994 9-17 5D

SHELLEY, P. E.
An Assessment of Automatic Sewer Flow Samplers - 1975,
W76-05864 9-12 5D

Design and Testing of a Prototype Automatic Sewer Sampling System,
W76-12872 9-24 5A

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W76-05865 9-12 5D

SHELPUK, C.
Mercury Concentrations in Fish, North Atlantic Offshore Waters--1971,
W76-08360 9-16 5A

SHELTON, S. P.
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W76-05114 9-11 5D

SHEMA, B. F.
Synergistic Compositions Containing 2,2-Dibromo-3-Nitrilopropionamide and 3,3,4,4-Tetrachlorotetrahydro-Thiopene-1,1-Dioxide and Their Use,
W76-05531 9-12 5F

SHEMDIN, O. H.
Modeling of Inlet-Bay Systems in Relation to Sand Trapping,
W76-10462 9-19 2L

SHEMERYANKINA, M. I.
Determination of Volatile Phenols in Wastewaters of Chemical Pharmaceutical Industries, (In Russian),
W76-03639 9-08 5A

SHEN, H. T.
Numerical Calculation of the Wave Integrals in the Linearized Theory of Water Waves,
W76-07565 9-15 8B

Transient Dispersion in Uniform Porous Media Flow,
W76-12842 9-24 5B

SHENK, W. E.
Meteorological Interpretations of the Images from the Nimbus 5 Electrically Scanned Microwave Radiometer,
W76-07071 9-14 2B

SHEPARD, P. J.
Analysis of the Role of the Gulf Intracoastal Waterway in Texas,
W76-12389 9-23 5G

SHEPHERD, W.
Inclusion of Plant Moisture Status in Combination-Method Estimates of Pasture Evaporation,
W76-00027 9-01 2D

SHEPPARD, C. R. C.
Pollution of the Mediterranean Around Naples,
W76-11713 9-22 5B

SHEPPARD, J. C.
Trees as Environmental Sensors Monitoring Long-Term Heavy Metal Contamination of Spokane River, Idaho,
W76-03320 9-07 5A

SHEPPARD, J. D.
Storm Runoff in the Vicinity of Oak Ridge, Tennessee,
W76-01841 9-04 2A

SHERARD, J. L.
Identification and Nature of Dispersive Soils,
W76-13170 9-24 8D

SHERENKOV, I. A.
Aeration Tank,
W76-02845 9-06 5D

SHERK, J. A.
Respiratory and Hematological Responses of Oyster Toadfish (Opsanus Tau) to Suspended Solids,
W76-04909 9-10 5C

SHERLIN, G. C.
Review of Standards and Other Information on Thermoplastic Piping in Residential Plumbing,
W76-11603 9-21 8G

SHERMAN, J.
Biogeochemistry of Marsh Gases: Effects of Inorganic Constituents of Marsh Plants on Methane Evolution; and Carbohydrate Stability in Plants,
W76-01139 9-03 2L

SHERMAN, K.
Distribution of Tar Balls and Neuston Sampling in the Gulf Stream System,
W76-10410 9-19 5B

SHERMAN, R. M.
Reduction in Oxygen Demand of Abattoir Effluent by Precipitation with Metal,
W76-08169 9-16 5D

SHERMAN, V. R.
Virus Removal in an Activated Sludge Plant,
W76-10230 9-19 5D

SHERRARD, J. H.
Effect of Wastewater Composition and Cell Residence Time on Phosphorus Removal in Activated Sludge,
W76-10239 9-19 5D

Estimating Sludge Production Aids in Facilities Design, Part II,
W76-03444 9-07 5D

SHERRILL, J. D.
Rainfall-Runoff Relations on Urban and Rural Areas,
W76-00685 9-02 2A

SHERWANI, J. K.
Strategies for Water Quality Monitoring,
W76-00178 9-01 5A

SHERWOOD, M. J.
Disease Responses in Southern California Coastal Fishes,
W76-10366 9-19 5C

SHESTAKOV, F. V.
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W76-05600 9-12 4B

SHETH, S. B.
Control of Pollution From Petroleum Refineries,
W76-04023 9-09 5D

SHETTEL, R. E.
Irrigation Systems Automation,
W76-10955 9-20 3F

SHEVCHENKO, A. K.
Problem of Blood-Sucking Flies in the Zones Affected by Big Water Reservoirs in the Ukrainian SSR, (In Russian),
W76-08991 9-17 5G

SHEVCHENKO, N. N.
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W76-07990 9-15 3C

SHEVTSOVA, G. N.
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W76-03022 9-07 3C

SHEW, C. D.
Ground Water Problems Associated with Well-Drilling Additives,
W76-08902 9-17 5B

SHEW, D. C.
Comparison of Two Predictive Nonequilibrium One-Dimensional Models for Phosphorus Sorption and Movement Through Homogeneous Soils,
W76-08677 9-16 5B

SHEW, R. L.
Recreation Use Patterns and User Attitudes on the Snake River,
W76-08751 9-17 6B

SHIAU, J. C.
Computer Simulation of Beach Erosion and Profile Modification Due to Waves,
W76-10448 9-19 2L

SHIBATA, S.
Determination of Silver in Biological Materials by High-Frequency Plasma-Torch Emission Spectrometry,
W76-03304 9-07 5A

SHIDELER, G. L.
Field Performance of Permeable Breakwater,
W76-08684 9-16 8A

SHIELDS, M. A.
Social Impact Assessment: An Analytic Bibliography,
W76-05820 9-12 6B

SHIFRIN, S.
Cleaning of Industrial Effluent,
W76-08719 9-16 5D

SHIH, C. S.
Multiattribute Water Resources Decision Making,
W76-08079 9-15 6B

System Optimization for Pulp and Paper Industrial Wastewater Treatment Design,
W76-04190 9-09 5D

SHIH, S. F.
A Modified Monte Carlo Technique to Compute Thiessen Coefficients,
W76-04688 9-10 2A

SHIIO, H.
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W76-00612 9-02 5A

SHIKAZE, K.
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W76-04752 9-10 5D

SHILLING, W. C.
Agricultural Sediment Control for Water Quality Protection,
W76-10617 9-20 5G

SHILLINGFORD, T. H.
Shoreline Retaining Wall,
W76-10953 9-20 8B

SHIM, J. C.
Toxicity of Agricultural Chemicals to Larvivorous Fish in Korean Rice Fields,
W76-11095 9-20 5C

SHIMABUKU, R.
Some Effects of Cadmium on Coniferous Forest Soil/Litter Microcosms,
W76-01862 9-04 5B

SHIMAMOTO, T.
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W76-03715 9-08 5F

SHIMAMURA, I.
Method of Treating Waste Liquids from Photographic Processings,
W76-05963 9-12 5D

SHIMAZAKI, T. T.
Direct Contact Multi-Stage Flash Desalination,
W76-09052 9-17 3A

SHIMIZU, A.
System for Treating Sludge,
W76-11216 9-21 5D

SHIMIZU, K.
Thiuram Polysulfide Heavy Metal Remover,
W76-10466 9-19 5D

SHIMIZU, S.
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W76-00122 9-01 5D

SHIMIZU, T.
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W76-04199 9-09 5D

SHIMIZU, Y.
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W76-00822 9-02 5A

SHIMKO, I. G.
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W76-10837 9-20 5D

Use of Electrodialysis in the Water Recycling System of Viscose Production (Primenenie elektrodializa v sisteme vodooborota viskoznogo proizodstva),
W76-10848 9-20 5D

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W76-12960 9-24 2I

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W76-04108 9-09 5B

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W76-08211 9-16 3A

SHIMURA, S.
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W76-11712 9-22 5C

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W76-01390 9-03 5D

Evaluation of Anaerobic Lagoon Treating Swine Wastes,
W76-01032 9-03 5D

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W76-04789 9-10 5D

SHINDLER, D. B.
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W76-08453 9-16 5C

SHINN, E. A.
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W76-00411 9-01 5C

SHINNAI, K.
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W76-09215 9-17 8C

SHINNAR, R.
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W76-10039 9-19 5B

SHINOHARA, O.
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W76-00218 9-01 5D

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W76-07406 9-14 5C

SHIOZAKI, M.
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W76-08617 9-16

SHIOZAWA, D. K.
The Effect of the Goshen Bay Dike on t Benthos of Utah Lake in Relation to Wa Quality,
W76-04013 9-09

SHIPLEY, J. L.
Economics of Land Leveling for Dryland Gr Production,
W76-01692 9-04

SHIPPEN, R. S.
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W76-08646 9-16

SHIRAI, K.
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W76-09000 9-17

SHIRLEY, R. L.
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W76-03551 9-08

Nutritional and Physiological Effects Nitrates, Nitrites, and Nitrosamines,
W76-06334 9-13

SHIROYAMA, T.
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W76-06699 9-13

Comparison of the Algal Growth Responses Selenastrum Capricornutum Printz ar Anabaena Flos-Aquae (Lyngb.) De Brebisso in Waters Collected from Shagawa Lake, Mi nesota,
W76-06701 9-13

The Relationship of Laboratory Algal Assay to Measurements of Indigenous Phytoplankto in Long Lake, Washington,
W76-06700 9-13

Utilization of Algal Assays to Assess the E fects of Municipal, Industrial and Agricultur Wastewater Effluents upon Phytoplankto Production in the Snake River System,
W76-00342 9-01

Utilization of Algal Assays to Assess the E fects of Municipal, Industrial, and Agricultur Wastewater Effluents Upon Phytoplankto Production in the Snake River System,
W76-05472 9-11

SHIRYAYEV, R. A.
Geomechanical Investigations of the Roc Bases of Hydraulic Structures,
W76-04323 9-09

SHIRYAYEVA, T. A.
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W76-04324 9-09 2C

SHISHKIN, B. A.
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W76-12319 9-23 5C

SHIVELY, J. M.
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W76-09369 9-17 5C

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Change of Some Physiological and Biochemical Indices of Phragmites Communis Trin. with Different Mineral Nutrition Under Experimental Conditions, (In Russian),
W76-02942 9-06 5C

SHKOLNIK, A.
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W76-13125 9-24 3C

SHKRYABIY, P. A.
Formation of Water and Sediment Discharge During the Spring Flood on a Slope and in a Small Gully-Ravine Drainage Basin,
W76-06176 9-13 2J

SHLYK, V. G.
On the Mechanism of Gamma-Radiolysis of Effluents (K mekhanizmu gamma-radioliza stochnykh vod),
W76-12508 9-23 5D

SHMIGIDINA, A. M.
The Chromatographic Method of Determining Inorganic and Organic Mercury Compounds in Fresh Water, (In Russian),
W76-12569 9-23 5A

SHNIER, C.
The Influence of Water Quality on Accumulation of Heavy Metals in Aquatic Organisms,
W76-08456 9-16 5C

SHOAF, W. T.
The Measurement of Adenosine Triphosphate in Pure Algal Cultures and Natural Aquatic Samples,
W76-10133 9-19 5A

SHOFNER, F. M.
Atmospheric Dispersion of Cooling-Tower Blowdown,
W76-08853 9-17 5B

Measurement and Interpretation of Drift-Particle Characteristics,
W76-04823 9-10 5A

Prediction and Measurement of Airborne Particulate Concentrations from Cooling-Device Sources and in the Ambient Atmosphere,
W76-04824 9-10 5A

SHOGENJI, T.
Activated Carbon Treatment of Paper and Pulp Effluents, (Kami parupu haisui no kasseitan shori),
W76-00493 9-01 5D

SHOLL, R. D.
The Microenvironment of Climacium Americanum,
W76-06045 9-12 2G

SHOOK, D.
Remote Sensing Study of Maumee River Effects on Lake Erie,
W76-12819 9-24 5A

SHORE, R.
Cadmium Levels and Carbohydrate Metabolism in Limpets,
W76-11963 9-22 5C

SHORT, A. D.
Beach Dynamics and Nearshore Morphology of the Beaufort Sea Coast, Alaska,
W76-12820 9-24 2L

Freezeup Processes on Arctic Beaches,
W76-02551 9-06 2C

Multiple Offshore Bars and Standing Waves,
W76-01298 9-03 2L

Offshore Bars Along the Alaskan Arctic Coast,
W76-11873 9-22 2L

SHORT, J. W.
The Effect of Prudhoe Bay Crude Oil on Survival and Growth of Eggs, Alevins, and Fry of Pink Salmon, Oncorhynchus Gorbuscha,
W76-00141 9-01 5C

SHORT, R. W. JR.
Controlling Phenols in Refinery Waste Waters,
W76-07520 9-15 5D

SHOWEN, C. R.
Index to U. S. Geological Survey Computer Files Containing Daily Values for Water Parameters to September 30, 1971, Northeastern Region,
W76-00097 9-01 7C

SHOWS, L. J.
Navigation Conditions at Uniontown Locks and Dam, Ohio River; Hydraulic Model Investigation.
W76-07472 9-15 8B

SHPET, G. I.
Engineering Reclamation, A Most Important Means of Increasing Fish Productivity of Waters, (In Russian),
W76-09800 9-18 8I

SHRADER, E. A.
Full-Scale Tests of an Installation for Purification of Viscose Production Effluents by Electroflotation (Proizvodstvennye ispytaniya ustanovki elektroflotatsionnoi ochistki stochnykh vod viskoznykh proizvodstv),
W76-10837 9-20 5D

SHRIVASTAVA, G.
Most Jamaican Water Comes from Limestone Aquifers,
W76-11910 9-22 4B

SHRIVER, L. E.
Chemi-Mechanical Paper Mill and Municipal Waste Water Treatment Pilot Plant Study,
W76-02467 9-05 5D

Operational Practices to Upgrade Trickling Filter Plant Performance,
W76-05781 9-12 5D

SHTANNIKOV, E. V.
Hygienic Evaluation of the Quality of Water Desalinated in Industrial Electrodialysis Installations Under Conditions of Country Settlements, (In Russian),
W76-12910 9-24 5F

SHTERN, V. A.
Change of Water Regime and Content of Mobile Forms of N, K, Mn and Fe in Meadow-Peat Soil of the Ramensk Floodplain of the Moscow River in Connection with Agricultural Use, (In Russian),
W76-10477 9-19 2G

SHTERNBERGS, M. T.
The Migration of Fly Larvae (Simuliidae) in Water With High Levels of Turbidity(in Russian).
W76-01615 9-04 2I

SHTEYNBERG, E. I.
Specific Pollutants in Urban Waste Waters and the Efficiency of their Purification (Spetsificheskie zagryazneniya gorodskikh stochnykh vod i effektivnost' ikh ochistki),
W76-09002 9-17 5A

SHTEYNBERG, Y. I.
Synthetic Surfactants in Urban Effluents and their Rate of Elimination in Biological Wastewater Treatment Plants (Sinteticheskie poverkhnostnoaktivnye veshchestva v gorodskikh stokakh i effektivnost' ochistki ot nikh na biologicheskoy stantsii),
W76-00351 9-01 5D

SHTRYUPKUVENE, N. K.
Uptake of Sr90 by Organisms of Gammarus Sp and Chironomus F. L. Plumosus L.,
W76-06881 9-14 5C

SHUBERT, C. H.
Evaluation of Dairy, Beef and Swine Waste Handling Systems,
W76-07171 9-14 5D

SHUCHMAN, R.
Basic Remote Sensing Investigations for Beach Reconnaissance: An Interim Report,
W76-12375 9-23 2L

SHUCHMAN, R. A.
Basic Investigations for Remote Sensing of Coastal Areas,
W76-13182 9-24 2L

Basic Investigations for Remote Sensing of Coastal Areas,
W76-13183 9-24 2L

SHUCKROW, A. J.
Stabilization of Municipal Sewage Sludge by High Lime Dose,
W76-05081 9-11 5D

SHUFFMAN, O.
Apparatus and Method for Recovering Pure Water from Natural Sources and Industrial Polluted Waste Sources,
W76-09867 9-18 5G

SHUKHTINA, G. G.
Effect of the Water Regime on the Heat-Resistance of Leaf Cells of Heat-Hardened Tradescantia Fluminensis Vell. Plants, (In Russian),
W76-09102 9-17 2I

SHUKLA, L. N.
Soil Compaction due to Harvest Traffic in Sugarcane Fields on a Lajas Valley Farm of Puerto Rico,
W76-04089 9-09 3F

SHULL, H.
Sprinkler Irrigation Percolation Losses,
W76-13005 9-24 3F

SHULTERS, M. V.
Lakes of Oregon: Volume 3. Hood River, Multnomah, Washington, and Yamhill Counties,
W76-01579 9-04 2H

SHULTZ, D. J.
Determination, Storage, and Preservation of Low Molecular Weight Hydrocarbon Gases in Aqueous Solution,
W76-09834 9-18 2K

SHUMAN, M. S.
Sensors for Continuous Monitoring of Toxic Ions, Nutrients, and Dissolved Gases in Water,
W76-09906 9-18 5A

SHUMAS, F. J.
Diffuser Design,
W76-09291 9-17 8A

SHUNNEY, E. L.
Treating Waste,
W76-01718 9-04 5D

SHUPE, O. K.
Structural Performance of Buried Plastic Drain Tubing,
W76-08771 9-17 8G

SHURYGIN, A. P.
Flame Treatment of Waste Waters Containing Organic Chlorine and Sulfur Impurities,
W76-07508 9-15 5D

SHUSTROV, V. S.
Method of Determining Residues of the Herbicide Lenacil in Water, Soil and Sugar Beets, (In Rusian),
W76-11527 9-21 5A

SHUTER, E.
Stress Determination by Hydraulic Fracturing in Subsurface Waste Injection,
W76-00089 9-01 5E

SHUTT, P. R.
Odor Problems Associated with Agricultural Waste Handling,
W76-00472 9-01 5D

SHUTTLEWORTH, S. G.
The Effect of Manganese and Neutralisation on the Removal of Sulphide and Oxygen Demand in Fellmongery Effluent,
W76-04770 9-10 5D

SHUVAL, H. I.
Inactivation of Viruses and Bacteria by Ozone,
W76-00119 9-01 5F

SHUYLER, L. R.
Animal Waste--Regulatory Considerations,
W76-00436 9-01 5G

SHVEDOV, V. P.
Accumulation of Sr90, Ca, and Sr By Fish in Seas And Oceans,
W76-06896 9-14 5C

SHVEDOVA, O. E.
State of Cytoplasmic Proteins of Corn Leaves in Dependence of Soil Moisture, (In Russian),
W76-07267 9-14 3F

SHVETS, D. A.
Method of Determining Residues of the Herbicide Lenacil in Water, Soil and Sugar Beets, (In Rusian),
W76-11527 9-21 5A

SIADAT, H.
Water Requirements of Crops,
W76-01884 9-04 3F

SICK, L. B.
Effects of Environmental Levels of Mercury and Cadmium on Rates of Metal Uptake and Growth Physiology of Selected Genera of Marine Phytoplankton,
W76-10280 9-19 5C

SICK, L. V.
The Effect of Duration of Feeding, Amount of Food, Light Intensity, and Animal Size on Rate of Ingestion of Pelleted Food by Juvenile Penaeid Shrimp,
W76-01154 9-03 8I

SIDDOWAY, F. H.
Dryland Cropping Sequences Within a Tall Wheatgrass Barrier System,
W76-11521 9-21 3F

SIDORENKO, G. I.
Hygienic Evaluation of Electrodialysis Water Desalination Set Up, (In Russian),
W76-12394 9-23 5D

SIDWICK, J. M.
A Brief History of Sewage Treatment - 2 The Royal Commission,
W76-13060 9-24 5G

Control of Liquid Effluents from Chemical/Petrochemical Plants,
W76-07507 9-15 5D

An Economic Study of the Unox and Conventional Aeration Systems,
W76-06288 9-13 5D

Sludge Dewatering Trials at Banbury,
W76-05809 9-12 5D

SIEBERT, M.
Water Budget of a Refinery (Wasserhauswit Einer Raffinerie),
W76-00499 9-01 5D

SIEDLER, G.
Current Related to Sediment Transport at the Ibero-Moroccan Continental Shelf,
W76-01491 9-03 2L

SIEGEL, F. R.
PCB's in Suburban Watershed, Reston, Va.,
W76-00319 9-01 5B

SIEGEL, N. H.
Marine Sewage Disposal Device,
W76-09418 9-18 5D

SIEGER, R. B.
Design of Integrated Approach to Nutrient Removal,
W76-12635 9-23 5D

SIEGERMAN, H.
Application of Pulse Polarography to Pollutant Analysis,
W76-03529 9-08 5A

SIEKER, F.
Method for Determination of Design Storms with Locally Nonuniform Distribution (Verfahren Zur Ermittlung Eines 'Berechnungsregens' Mit Ortlich Ungleichmaessiger Verteilung),
W76-06299 9-13 2A

SIEMENS, J. C.
Erosion for Corn Tillage Systems,
W76-09248 9-17 3F

SIERKA, R. A.
Advanced Processes: Water Desalting and Reuse,
W76-00756 9-02 5I

SIESENNOP, G. D.
Acute Toxicity of Sodium Chloride, Pentachlorophenol, Guthion(R), and Hexavalent Chromium to Fathead Minnows (Pimephales Promelas) and Goldfish (Carassius Auratus),
W76-10335 9-19 5C

SIEVERS, D. M.
A Lagoon-Grass Terrace System to Treat Swine Waste,
W76-07198 9-14 5I

SIEWERT, W. H.
Escher-Wyss Flotation Cells for Clarification and Cleaning (Die Escher-Wyss Flotationszellen zur Klaerung und Reinigung),
W76-05723 9-12 5I

SIFALDA, V.
Derivation of a Model Rain for the Dimensioning of Sewer Systems (Entwicklung eines Berechnungsregens fuer die Bemessung von Kanalnetzen),
W76-08253 9-16 5I

SIGLER, W. F.
Studies for Wildlife on Energy Areas,
W76-10820 9-20 6G

Studies on the Least Chub (Iotichthys Phlegethontiscope) in Geothermal Activities Area of Snake and Tule Valleys, Utah,
W76-10824 9-20 6G

SIGNOR, D. C.
Geochemical Factors Affecting Artificial Groundwater Recharge in the Unsaturated Zone,
W76-03818 9-08 5C

Recent Advances in Artificial Recharge,
W76-12295 9-23 4B

SIGVALDASON, O. T.
A Simulation Model for Operating a Multipurpose Multireservoir System,
W76-08099 9-15 4A

SIK, R.
Sodium and Chloride Concentrations in Native Vegetation Near Chalk Point, Maryland,
W76-04819 9-10 5B

SIKES, J. E. G.
A Clean Piece of Paper,
W76-10842 9-20 5I

Economic Considerations in the Selection of Biological Treatment System,
W76-09290 9-17 5D

SIKKA, H. C.
Effects, Uptake and Metabolism of Methoxychlor, Mirex, and 2,4-D in Seaweeds,
W76-11189 9-21 5C

SILCOX, W. H.
Technical Capabilities in Offshore Completion and Workover Operations to Maximize Safety,
W76-11002 9-20 5G

SILER, O. W.
Deepwater Ports: Licensing Procedures and Design Construction, Equipment and Operations,
W76-10767 9-20 5G

SILIDES, D. J.
The Effect of Lead on Mouse Brain Development,
W76-09038 9-17 5C

SILL, B. L.
Penetration and Mixing of Heated Discharges into Waterways,
W76-08926 9-17 5B

Physical Model of Discharge in a Two-Layer Stratified Ambient,
W76-09963 9-18 8B

SILLS, J. B.
Accumulation and Loss of Residues of 3-Trifluoromethyl-4-Nitrophenol (TFM) in Fish Muscle Tissue: Laboratory Studies,
W76-08065 9-15 5C

Residues of 3-Trifluoromethyl-4-Nitrophenol (TFM) in a Stream Ecosystem After Treatment for Control of Sea Lampreys,
W76-08066 9-15 5C

SILVERBLATT, C. E.
Freeze Treatment of Alum Sludge,
W76-12928 9-24 5E

When to Use Continuous Filtration Hardware,
W76-03201 9-07 5D

SILVERMAN, A. A.
Sewer Augering Machine,
W76-02212 9-05 8G

SILVERMAN, L. H.
Sewer Augering Machine,
W76-02212 9-05 8G

SILVERSTEIN, H.
Commentary on: Alternate Approaches to Order: International Ocean Organization and Their Regulatory Function,
W76-07342 9-14 6E

SILVERSTON, E.
Scour and Fill Patterns in Pool-Rapid Rivers,
W76-11511 9-21 2J

SILVESTON, P. L.
Computer Aided Planning of a Regional Disposal System for Municipal Sludge,
W76-11647 9-22 5D

SIMANENKO, Z. A.
Absorption Cleaning of Organic Effluent Vapours,
W76-07530 9-15 5D

SIMANTON, J. R.
Applicability of the Universal Soil Loss Equation to Semiarid Rangeland Conditions in the Southwest,
W76-02222 9-05 2J

Thunderstorm Precipitation Effects on the Rainfall-Erosion Index Of The Universal Soil Loss Equation,
W76-02740 9-06 2A

SIMARD, R. E.
Degree of Pollution of the Saint Lawrence River from Repentigny to Montmagny: II. Biochemical Pollution, (In French),
W76-06735 9-13 5B

Degree of Pollution of the Saint Lawrence River from Repentigny to Montmagny, (In French),
W76-06734 9-13 5B

SIMCO, B. A.
Salinity Effects on Plasma Electrolytes of Channel Catfish, Ictalurus Punctatus,
W76-08443 9-16 5C

SIMKOWSKI, N. A.
Coping with Flood Hazard in New Braunfels and Seguin, Texas,
W76-05502 9-12 6F

SIMMES, D. A.
Mapping Snow Extent in the Salt-Verde Watershed and the Southern Sierra Nevada Using Erts Imagery,
W76-02027 9-05 7B

SIMMLER, J. J.
Acid Strip Mine Lake Recovery,
W76-07499 9-15 5G

SIMMON, V.
Halogenated Organics in Tap Water: A Toxicological Evaluation,
W76-12885 9-24 5C

SIMMONS, C. E.
Sediment Characteristics of Streams in the Eastern Piedmont and Western Coastal Plain Regions of North Carolina,
W76-05849 9-12 2J

SIMMONS, D.
Bayport Centralizes Treatment of Industrial Wastes,
W76-02337 9-05 5D

The Fate of Nutrients in Back River,
W76-05625 9-12 5C

SIMMONS, D. G.
Selection of Economical Pipe Sizes for Water Distribution Networks,
W76-01787 9-04 5F

SIMMONS, G. M.
Carbon Wastewater Treatment Process,
W76-09441 9-18 5D

SIMMONS, J. E. L.
Effect of Separation Angle on Vortex Streets,
W76-03116 9-07 8B

SIMMONS, M. A.
Storm Induced Relationships Among Chemical Conditions and Phytoplankton in Saginaw Bay and Western Lake Huron,
W76-11282 9-21 5C

SIMMONS, R. A. G.
The Treatment of Water Purification Plant Wastes,
W76-11256 9-21 5F

SIMON, D. R.
Automatically Operated Water Distribution Systems Such as Lawn and Garden Sprinkling Systems and Timer Operated Valve Therefor,
W76-02257 9-05 3F

SIMON, F. O.
Determination of Tungsten in Geologic Materials by Neutron Activation Analysis,
W76-03309 9-07 5A

SIMON, J.
Data on the Disinfection of Liquid Manure by Gamma Irradiation at Baja, Hungary,
W76-09528 9-18 5D

The Waste-Water and Sludge Re-Use Project by Gamma Irradiation at Kecskemet, Hungary, Some Approaches and Investigations,
W76-09544 9-18 5D

SIMON, J. L.
Distribution and Abundance of the Polychaetous Annelids in a South Florida Estuary,
W76-11987 9-22 5C

The Positive Effect of Population Growth on Agricultural Saving in Irrigation Systems,
W76-04536 9-10 3F

SIMONEIT, B. R.
Application of Real-Time Mass Spectrometric Techniques to Environmental Organic Geochemistry. I. Computerized High Resolution Mass Spectrometry and Gas Chromatography-Low Resolution Mass Spectrometry,
W76-09687 9-18 5A

SIMONEN, E. R.
Computer Aided Planning of a Regional Disposal System for Municipal Sludge,
W76-11647 9-22 5D

SIMONI, O. W.
Construction and Performance of the Hess Creek Earth Fill Dam, Livengood, Alaska,
W76-07085 9-14 8D

SIMONOV, A. I.
Scientific Problems of the Systems for Global Monitoring and Investigation of Oil Pollution in the World Ocean,
W76-10372 9-19 5B

SIMONOV, S. S.
Photometric Method for the Control of Suspended Solids in Sedimentation Tanks (Fotometricheskii metod kontrolya vzveshennykh veshchestv v otstoinikakh),
W76-11390 9-21 5A

SIMONOV, V. A.
Use of Infrared Spectroscopy for Determining Environmental Pollutants, (In Russian),
W76-12307 9-23 5A

SIMONS, D. B.
The Geomorphic and Hydraulic Response of Rivers,
W76-02738 9-06 2E

Mathematical Modeling of Alluvial Channels,
W76-09968 9-18 8B

Remote Sensing of Mississippi River Characteristics,
W76-12442 9-23 7B

Riverbank Recessions for Power Plant Facilities,
W76-09973 9-18 8B

Safety Factors for Riprap Protection,
W76-11856 9-22 8B

SIMONS, T. J.
Continuous Dynamical Computations of Water Transports in Lake Erie for 1970,
W76-08724 9-16 2H

Numerical Computations of Advective and Diffusive Transports of Chloride in Lake Erie, 1970,
W76-08530 9-16 5B

Operational Model for Predicting the Movement of Oil in Canadian Navigable Waters,
W76-09908 9-18 5B

Verification of Numerical Models of Lake Ontario, III. Longterm Heat Transports,
W76-09783 9-18 2H

SIMPSON, B.
Flood Protection of Crystal River Unit 3 Nuclear Plant,
W76-07210 9-14 4A

SIMPSON, E. S.
Finite State Mixing-Cell Models,
W76-06594 9-13 2F

Uncertainties in Karstic Water Resources Systems,
W76-06595 9-13 2F

SIMPSON, F.
Monitoring of Subsurface Waste-Disposal Operations: A Generalized Systems Approach with Examples from Canadian Case Histories,
W76-10662 9-20 5D

SIMPSON, J. H.
A Boundary Front in the Summer Regime of the Celtic Sea,
W76-07782 9-15 2L

SIMPSON, J. P.
Drilling Fluid Principles and Operations,
W76-08893 9-17 8G

Financial Incentives and Pollution Control. A Case Study,
W76-03270 9-07 5G

SIMPSON, K. W.
Mites on Soybeans: Moisture and Temperature Relations,
W76-11604 9-21 3F

SIMPSON, R. G.
Flood Hydrology of Butte Basin 1973 and 1974 Water Years, Sacramento Valley, California--A Progress Report,
W76-11670 9-22 2E

SIMS, E.
Laboratory Evaluation of the Coulter On-Line Particle Monitor,
W76-09699 9-18 5A

SIMS, G. G.
DDT Residues in Cod Livers from the Maritime Provinces of Canada,
W76-07719 9-15 5C

SIMS, J. H.
Professional Bias and Water Reuse,
W76-13096 9-24 5G

SIMS, J. L.
Distribution and Biomagnification of Hexachlorophene in Urban Drainage Areas,
W76-03248 9-07 5B

SIMS, M. A.
An Electron Microscope Autoradiographic Investigation of the Accumulation of Zinc-65 by a Species of Eutreptia,
W76-03308 9-07 5A

SIMS, P. L.
Evapotranspiration from a Shortgrass Prairie Subjected to Water and Nitrogen Treatments,
W76-11849 9-22 2D

SIMS, R.
Survival and Chloride Ion Regulation of the Porcelain Crab Petrolisthes Armatus Exposed to Mercury,
W76-02328 9-05 5C

SIMSIMAN, G. V.
Persistence of Diquat in the Aquatic Environment,
W76-07546 9-15 5C

Persistence of Endothall in the Aquatic Environment,
W76-01658 9-04 5B

SINCLAIR, A. J.
Selection of Threshold Values in Geochemical Data Using Probability Graphs,
W76-02892 9-06 2K

SINCLAIR, I. J.
Deep Water Waves in Lakes,
W76-01000 9-02 2H

SINCLAIR, P. J.
Time of Concentration of Overland Flow,
W76-11958 9-22 2E

Uniqueness of a Model of Steady-State Ground-Water Flow,
W76-01526 9-04 2F

SINCLAIR, R. A.
Water Quality Characteristics of the Illinois River at Peoria,
W76-10922 9-20 5A

SINE, L.
Diffusivity of Water in A Non-Saturated Heterogeneous Environment, (In French),
W76-07290 9-14 2G

SINEV, O. P.
Production Studies on the Electrolytic Method of Recovering Zinc from Effluent Sediments (Proizvodstvennye issledovaniya elektroliticheskogo sposoba regeneratsii tsinka iz osadkov stochnykh vod),
W76-10846 9-20 5D

SINGER, D.
Flood Hazard Patterns of Urban Development in the Upper Midwest,
W76-03627 9-08 4A

SINGER, J. J.
Hydrology and Circulation Patterns in the Vicinity of Oregon Inlet and Roanoke Island, North Carolina,
W76-03178 9-07 2E

SINGER, M.
Erodibility of Tahoe Soils,
W76-07799 9-15 2J

SINGER, M. J.
Phosphorus in Surface Runoff from a Deciduous Forest,
W76-01145 9-03 5B

SINGH, ARJAN
Preliminary Observation on Seasonal Changes in the Salt Content of an Irrigated Soil Under Wheat-Maize Rotation,
W76-07954 9-15 3C

SINGH, G.
Comparative Study of Showalter's Stability Index and George's Instability Value K for Predicting Local Thunderstorm over Calcutta Airport,
W76-03373 9-07 2B

SINGH, J.
Methods for Removing Fluoborates from Aqueous Media,
W76-12398 9-23 5D

SINGH, K. P.
Unit Hydrographs - A Comparative Study,
W76-09254 9-17 2E

Varietal Response of Peas to Irrigation and In
terrow Spacing,
W76-06799 9-13 3I

SINGH, K. S.
A Comparative Study of the Effect of Qualitie
of Irrigation Water on Different Soils,
W76-08301 9-16 3C

SINGH, N. T.
Effect of Transpiration Rate on Salt Accumula
tion Around Corn Roots in a Saline Soil,
W76-00827 9-02 3C

Preliminary Observation on Seasonal Change
in the Salt Content of an Irrigated Soil Unde
Wheat-Maize Rotation,
W76-07954 9-15 3C

SINGH, R.
Water Quality Management Planning for Urba
Runoff,
W76-02758 9-06 5I

SINGH, R. C.
Tube-Settlers: Theory and Practice,
W76-03689 9-08 5I

SINGH, R. P.
Moisture use Efficiency of Dryland Crops a
Influenced by Fertilizer Use II. Rabi Cereals,
W76-10186 9-19 3I

SINGH, R. R.
Effect of Soil-Moisture Regimes and N and
Fertilization on Berseem Grown for Fodder,
W76-08987 9-17 3I

SINGH, S. P.
Effect of Soil-Moisture Regimes and N and
Fertilization on Berseem Grown for Fodder,
W76-08987 9-17 3I

SINGH, T.
Wastewater Collection, (Literature Review),
W76-12631 9-23 5I

SINGH, U. P.
Preliminary Hydrologic Design of Small Floo
Detention Reservoirs,
W76-08731 9-16 8I

SINGH, V. P.
Derivation of Time of Concentration,
W76-12196 9-23 2I

Estimation and Optimization of Kinemati
Wave Parameters,
W76-04553 9-10 2I

Hybrid Formulation of Kinematic Wav
Models of Watershed Runoff,
W76-03355 9-07 2I

A Note on the Step Error of Some Finite-Dif
ference Schemes Used to Solve Kinemati
Wave Equations,
W76-12834 9-24 2I

A Rapid Method of Estimating Mean Area
Rainfall,
W76-09368 9-17 2I

Sensitivity of Linear and Nonlinear Surfac
Runoff Models to Input Errors,
W76-09578 9-18 2A

SINGHAL, A. K.
Awt Plant Cuts Nutrients Economically,
W76-07042 9-14 5I

NGLETON, F. D.
An Economic Model of Water Use and Waste Treatment,
W76-05814 9-12 5D

NGLETON, F. D. JR.
An Integrated Power Process Model for Ethylene Production,
W76-04554 9-10 5D

An Integrated Power Process Model of Water Use and Waste Water Treatment in Chlor-Alkali Production,
W76-00707 9-02 5D

An Integrated Power Process Model of Water Use and Wastewater Treatment in Chlorine Caustic Production,
W76-10621 9-20 5D

NGLETON, F. L.
Alteration of Microbial Populations in Thermal Stress,
W76-11629 9-22 5D

NGLETON, K. G.
Methods and Costs of Industrial Effluent Treatment,
W76-07740 9-15 5D

NGLEY, J. E.
Velocity Gradient Calibration of Jar-Test Equipment,
W76-03695 9-08 5A

NHA, B.
Heavy Metal (Cu, Pb, Zn, Cd, Ni, As, Hg) Additions to Surface Waters, Streams Sediments and Selected Aquatic Life in the Meramec Park Reservoir Drainage Basin, Missouri,
W76-01686 9-04 5B

NHA, B. K.
Effect of Transpiration Rate on Salt Accumulation Around Corn Roots in a Saline Soil,
W76-00827 9-02 3C

NHA, E.
Solar Energy Technology, State of the Art, An Annotated Bibliography,
W76-06565 9-13 3A

NHA, S. B.
Quality of Well-Waters of Northern Madhya Pradesh,
W76-05146 9-11 4B

NITSIN, N. M.
Migration Ability of Radionuclides and Their Transition Into Water When Using Atomic Energy for Peaceful Purposes,
W76-06863 9-14 5B

NITSINA, E. D.
Migration Ability of Radionuclides and Their Transition Into Water When Using Atomic Energy for Peaceful Purposes,
W76-06863 9-14 5B

NKULE, C.
Nature and Stability of Complex Mercury Compounds in Surface and Ground Waters, Phase II,
W76-05838 9-12 5A

NLEY, J. R.
Acute and Chronic Toxicity of Lead to Rainbow Trout Salmo Gairdneri, in Hard and Soft Water,
W76-08781 9-17 5C

SINNERSDORF, N.
Apparatus for the Separation of Difficultly Miscible or Non-Miscible Liquids,
W76-03660 9-08 5G

SINNOTT, W. B.
Scheduling Major Capital Expenditures to Minimize Costs,
W76-01604 9-04 6C

SINSKEY, A. J.
Biological Effects of High-Energy Electron Irradiation of Municipal Sludge,
W76-09522 9-18 5C

Prospects for High-Energy Electron Irradiation of Waste-Water Liquid Residuals,
W76-09538 9-18 5D

Viruses and Ionizing Radiation in Respect to Waste-Water Treatment,
W76-09520 9-18 5D

SIPLE, G. E.
Ground-Water Resources of Orangeburg County, South Carolina,
W76-02496 9-05 4B

SIREN, M. J. O.
Waste Water Purification,
W76-02858 9-06 5D

SIRENKO, L. A.
Induced Change of Nitrate Reductase Activity in Microcystis Aeruginosa Kutz. Emend. Elenk, (In Russian),
W76-09816 9-18 5C

SIRISINHA, K.
Nitrogen Availability in Urban Runoff,
W76-12596 9-23 5B

SIRMANS, C. F.
The Economic Impact of Recreational Land-Use in an Island Environment: A Case Study of Jekyll Island, Georgia,
W76-10581 9-20 6B

SIROKI, M.
Extraction - Visible Spectrophotometric Method for Determination of Nitrate: Application to Water Analysis,
W76-05717 9-12 5A

SIRONS, G.
Lateral Loss of Picloram and 2,4-D from a Forest Podsol During Rainstorms,
W76-06197 9-13 5B

SISCO, H. G.
Ground-Water Levels and Well Records for Current Observation Wells in Idaho, 1974,
W76-02139 9-05 7C

SISK, M. E.
An Aquatic Technique for Collecting Small Adult Insects,
W76-08574 9-16 7B

SISKA, S.
Engineering Methods of Process Solutions in the Treatment of Tannery Effluents,
W76-07505 9-15 5D

Water Quality Aspects of Tannery Effluents Disposal,
W76-01645 9-04 5D

SISKIND, D. E.
Fracturing in the Zone Around a Blasthole, WhitePine, Minnesota,
W76-00035 9-01 8B

SISSENWINE, M. P.
Simulating the Impact of the Entrainment of Winter Flounder Larvae,
W76-07488 9-15 8I

SISSON, W. G.
A Pilot Plant for Sewage Treatment by Cross-Flow Filtration,
W76-00246 9-01 5D

SIU, H. M.
Determination of Nitrate in Water Samples Using A Portable Polarographic Instrument,
W76-02506 9-06 5A

SIVERTS, L. E.
Canyon Creek Management Analysis,
W76-02242 9-05 4C

SIVINSKI, H. D.
Treatment of Sewage Sludge with Combinations of Heat and Ionizing Radiation (Thermoradiation),
W76-09523 9-18 5D

SIYAG, R. S.
Distribution of Different Qualities of Underground Waters in Rewari Tehsil of Haryana State,
W76-05432 9-11 3C

SIZOV, K. V.
A New Method for the Purification of Sugar-Producing Plant-Generated Waste Waters at the BMA Enterprises (Novvy sposob ochistki stochnykh vod sakharnykh zavodov firmy BMA),
W76-02785 9-06 5D

SJOGREN, D. D.
Evaluation Report of the Training Program on Transfer of Technology..Training of Government Personnel in the Application of the Principles, Standards and Procedures for Planning of the Water Resources Council,
W76-05349 9-11 9B

SKAGGS, R.
Remote Sensing Applications to Hydrology in Minnesota,
W76-02907 9-06 4A

SKAGGS, R. W.
Determination of the Hydraulic Conductivity - Drainable Porosity Ratio from Water Table Measurements,
W76-09249 9-17 2F

Drawdown Solutions for Simultaneous Drainage and ET,
W76-04103 9-09 4B

Nitrogen Movement in a Shallow Aquifer System of the North Carolina Coastal Plain,
W76-04099 9-09 5B

Predicted Versus Measured Drainable Porosities,
W76-13019 9-24 4A

Soil Water,
W76-01111 9-03 2G

Transformations of Swine Wastewater in Laboratory Soil Profiles,
W76-01387 9-03 5B

Upward Water Movement in Field Cores,
W76-01068 9-03 3F

Upward Water Movement in Field Cores,
W76-09726 9-18 3F

SKAKAL'SKIY, B. G.
Effect of Urbanization on the Quality of River Water,
W76-05926 9-12 5B

SKALNY, W.
Chemical Effluent-Treatment Plant,
W76-04781 9-10 5D

SKATCHEK, A. V.
Computer Application in Processing Technical and Economic Data for Optimizing Complex Water Resources Systems,
W76-12565 9-23 6A

SKAU, C. M.
Chemical Composition of Snow in the East Central Sierra Nevada,
W76-04018 9-09 2C

SKEI, J. M.
Areal and Seasonal Variations in the Chemistry of Suspended Particulate Matter in a Deep Water Fjord,
W76-08829 9-17 2L

SKELLY, M. J.
Statistical Design Basis for Submerged Diffuser,
W76-07214 9-14 5B

SKELTON, J.
The 1973 Mississippi River Basin Flood: Compilation and Analyses of Meteorologic, Streamflow, and Sediment Data,
W76-05860 9-12 2E

SKIDMORE, L. R. III.
Nitrate Pollution and the California Environmental Quality Act: The Appropriate Solution to a Neglected Problem,
W76-11981 9-22 5G

SKILES, C. L.
Water Gate,
W76-02995 9-06 8C

SKINNER, D. J.
Experimental Burning of Waste Oil as a Fuel in Cement Manufacture,
W76-04177 9-09 5A

SKINNER, J. E.
A Functional Evaluation of a Large Louver Screen Installation and Fish Facilities Research on California Water Diversion Projects,
W76-08652 9-16 8I

SKINNER, M. M.
Remote Sensing of Mississippi River Characteristics,
W76-12442 9-23 7B

SKIPNES, O.
Uptake of Zinc and Strontium by Brown Algae,
W76-05473 9-11 5C

SKIRKOV, I. V.
Criteria for the Evaluation of the Efficiency of Secondary Settlers (Kriteiy otsenki raboty vtorichnykh otstoyhikov),
W76-07002 9-14 5D

SKJEI, R. E.
Engineering and Ecological Evaluation of Artificial-Island Design, Rincon Island, Punta Gorda, California,
W76-09903 9-18 2L

SKJEI, S. S.
Urban Service Pricing and Land Use: Some Preliminary Results,
W76-10193 9-19 6C

SKLARZ, M. A.
Numerical Prediction of Harbor Responses,
W76-10419 9-19 8B

SKOCYPEC, R. J.
Oil/Water Tank Content Profiles,
W76-01837 9-04 5A

SKOGAN, V. G.
Tertiary Treatment of Process Water,
W76-01634 9-04 5D

SKOGERBOE, G. V.
Potential of Mine and Mill Spoils for Water Quality Degradation,
W76-06949 9-14 5B

Salinity Policy for Colorado River Basin,
W76-00553 9-02 5G

Salinity Policy for Colorado River Basin,
W76-01126 9-03 5G

Surveillance in Water Quality Management,
W76-12148 9-22 5G

Water Intake Under Center-Pivots From Time-Varying Application Rates,
W76-00031 9-01 3F

Water Quality Control in Mine Spoils, Upper Colorado River Basin,
W76-01870 9-04 5G

SKOGERBOE, R. K.
Potential of Mine and Mill Spoils for Water Quality Degradation,
W76-06949 9-14 5B

Water Quality Control in Mine Spoils, Upper Colorado River Basin,
W76-01870 9-04 5G

SKOLOVA, I. A.
Accumulation of Sr90, Ca, and Sr By Fish in Seas And Oceans,
W76-06896 9-14 5C

SKOOG, G.
Effects of Acclimatization and Physiological State on the Tolerance to High Temperatures and Reactions to Desiccation of Theodoxus Fluviatilis and Lymnea Peregra,
W76-12741 9-24 5C

SKOPP, J.
A Two-Phase Model for the Miscible Displacement of Reactive Solutes in Soils,
W76-00826 9-02 3C

SKORA, S.
The Roach (Rutilus Rutilus L.) from the Dam Reservoir in Przeczyce, Poland,
W76-00556 9-02 2I

SKORUPINSKI, R. E.
Water Power Machine and Undersea, Under Water Generator Station,
W76-05039 9-11 8C

SKORY, L.
Chemical Recovery Plant is Final Stage of $9.2 Million Waste Program,
W76-04195 9-09 5D

SKRENTNER, R. G.
Sewerage System Monitoring and Remote Control,
W76-00691 9-02 5D

SKRESLET, S.
Water Transport in the Sill Area of Balsfjo North Norway, During Vernal Meltwat Discharge,
W76-09999 9-18 2

SKRINDE, R. T.
The Southeast Florida Experience in Resolvi Development and Environment Conflicts,
W76-07153 9-14 6

SKRIVAN, J. A.
Application of the Sagar Method for the Sol tion of the Inverse Problem in Ground-Wat Hydrology,
W76-02730 9-06 1

SKULBERG, O. M.
Observation and Monitoring of Water Quali by use of Experimental Biological Methods,
W76-08793 9-17 5

SKURSKI, K.
Planning for Coastal Recreation Opportuniti Near Large Urban Areas: A Study Relati Transportation and Recreation,
W76-01516 9-04 6

SLACK, H. D.
A Lever-Operated Ekman Grab,
W76-03392 9-07 1

SLACK, J. R.
Effect of Sequence Length n on the Choice Assumed Distribution of Floods,
W76-09851 9-18 4

On the Value of Information to Flood Freque cy Analysis,
W76-02952 9-06 4

Regional Skew in Search of a Parent,
W76-03899 9-08 1

SLACK, K. V.
Methods for Collection and Analysis Aquatic Biological and Microbiological Sa ples,
W76-03915 9-08 5

SLACK, L. J.
Hydrologic Environmental Effects of Spray Sewage Effluent, Tallahassee, Florida,
W76-09134 9-17 3

SLADE, G. D.
The Developing Role of Water Authorities,
W76-06322 9-13 6

SLADE JR, R. M.
Hydrologic Data for Urban Studies in the F Worth, Texas Metropolitan Area, 1974,
W76-10141 9-19

SLADE, R. M. JR.
Hydrologic Data for Little Elm Creek, Trin River Basin, Texas, 1973,
W76-01181 9-03

Hydrologic Data for Little Elm Creek, Trin River Basin, Texas, 1974,
W76-10144 9-19

SLADEK, K. L.
Evaluation of a Single-Step Bacterial Polluti Monitor,
W76-01758 9-04

SLADKOV, A. V.
Dimensioning of Underground Sewer Pipelin Made of Plastic Tubes (Raschet podzemny

kanalizatsionnykh truboprovodov iz polimernykh trub),
W76-08962 9-17 8B

SLATER, M. J.
Continuous Ion Exchange in Fluidized Beds,
W76-04212 9-09 5D

SLAUGHTER, C. W.
Accumulating Snow to Augment the Fresh Water Supply at Barrow, Alaska,
W76-01323 9-03 2C

SLAUGHTER, T. H.
Maryland Chesapeake Bay Beaches - General Distribution and Classification,
W76-09568 9-18 2L

The Relationship of the Nearshore Longshore Bar and Sand Waves at Ocean City, Maryland,
W76-09569 9-18 2L

SLAWSON, P. R.
Some Observations on Cooling-Tower Plume Behavior at the Paradise Steam Plant,
W76-04809 9-10 5B

SLAWYK, G.
An Automated Assay for the Determination of Nitrate Reductase in Marine Phytoplankton,
W76-12940 9-24 5C

Significance of Cellular Nitrate Content in Natural Populations of Marine Phytoplankton Growing in Shipboard Cultures,
W76-12936 9-24 5C

SLEATH, J. F. A.
A Contribution to the Study of Vortex Ripples,
W76-02419 9-05 8B

On Rolling-Grain Ripples,
W76-10917 9-20 2J

SLECHTA, A. F.
Activated Bio-Filter Process,
W76-06349 9-13 5D

SLEIGH, J. H.
Meeting EPA Standards with Reverse Osmosis,
W76-05295 9-11 5D

SLEIGHT, B. H. III.
Toxic Effects of Oil Discharged from Ships,
W76-12380 9-23 5C

SLIMAK, K. M.
Identification of Organic Compounds in Effluents from Industrial Sources,
W76-11598 9-21 5A

SLINN, W. G. N.
An Analytical Search for the Stochastic-Dominating Process in the Drift-Deposition Problem,
W76-04825 9-10 5B

SLIPCHENKO, V. A.
Hygienic Evaluation of Chlorinating Water by Products of the Electrolysis of Sodium Chloride Solutions, (In Russian),
W76-03813 9-08 5F

SLOAN, B. J.
Awt Plant is Top Performer,
W76-05769 9-12 5D

SLOAN, J. P.
Toxicity Study - Drilling Fluid Chemicals on Aquatic Life,
W76-08895 9-17 5C

SLOCUM, C. J.
Chlorination of Organics in Drinking Water,
W76-12881 9-24 5C

SLOCUMB, R. C.
Apparatus for Removing Oil From Water,
W76-02608 9-06 5G

SLOKA, Y.
Study of Sr90/Sr Ratio in a Latvian Seaside Lake,
W76-06869 9-14 5C

SLOKA, Y. Y.
Sr90 in Water, Bottom, and Water Organisms in Latvian Lakes of Various Types,
W76-06867 9-14 5B

Study of the Strontium 90/Strontium Isotope Balance in a Latvian Lake, (In Russian),
W76-06733 9-13 5A

SLONOV, L. K.
Change of the Content and State of Pigments in Leaves of Male and Female Hemp in Relation to Nutrition and Soil Moisture Content, (In Russian),
W76-08306 9-16 2I

SLOOT, J. W.
Measured Chromium Distributions Resulting from Cooling-Tower Drift,
W76-04828 9-10 5B

SLOSS, P. W.
Measurements of Current Flow During Summer in Lake Huron,
W76-08413 9-16 2H

Water Volume Transport and Oscillatory Current Flow Through the Straits of Mackinac,
W76-08128 9-16 2H

SLOTO, R. A.
Selected Hydrologic Data, Chester County, Pennsylvania,
W76-08557 9-16 7C

SLUKHAI, S. I.
Effect of Water and Nutrient Regimes of Peat Soil on the Qualitative Composition of Starch in Potato Tubers, (In Russian),
W76-07990 9-15 3C

Effectiveness of Water Utilization by Plants, (In Ukranian),
W76-09809 9-18 2D

State of Cytoplasmic Proteins of Corn Leaves in Dependence of Soil Moisture, (In Russian),
W76-07267 9-14 3F

SLUPSKY, J. W.
Northern Environmental Engineering - A Canadian Challenge,
W76-11655 9-22 5D

SLY, P. G.
Lake Erie and Its Basin,
W76-08723 9-16 2H

SLY, W. K.
Effects of Time Taken to Apply an Irrigation on Seasonal Irrigation Requirements,
W76-00731 9-02 3F

Ratio Between Evapotranspiration from Lysimeters and Evaporation from Small Evaporimeters Using 2- and 3- hour Periods of Measurement,
W76-06029 9-12 2D

SMALL, M.
An Experiment in the Eutrophication of Terrestrial Ecosystems with Sewage: Evidence of Nitrification in a Late Successional Forest,
W76-03555 9-08 5C

Experimental Eutrophication of Terrestrial and Aquatic Ecosystems. First Annual Report of the Upland Recharge Project,
W76-01155 9-03 5D

SMALL, M. M.
Brookhaven's Two Sewage Treatment Plants,
W76-07044 9-14 5D

Meadow/Marsh Systems as Sewage Treatment Plants,
W76-12753 9-24 5D

SMALLEY, A. E.
Chevron Main Pass Block 41 Oil Spill: Chemical and Biological Investigations,
W76-00145 9-01 5A

SMALLWOOD, C. JR.
Waste Control and Abatement in the Processing of Sweet Potatoes,
W76-03636 9-08 5D

SMALLWOOD, H.
Effluent Detention Ponds Dechlorinate Wastewater,
W76-09678 9-18 5D

SMART, P. L.
Water Tracing in Tropical Regions, The Use of Fluorometric Techniques in Jamaica,
W76-10701 9-20 2F

SMART, R. E.
Grapevine Response to Furrow and Trickle Irrigation,
W76-06032 9-12 3F

SMAUS, R. J.
Chemical Coagulation of Feedlot Runoff,
W76-04426 9-09 5D

SMAYDA, T. J.
Seasonal Studies on the Relative Importance of Different Size Fractions of Phytoplankton in Narragansett Bay (USA),
W76-08686 9-16 5C

SMEDILE, E.
Effect of Entrainment in Power Station Cooling Systems Studied Using Periphytic Communities,
W76-09498 9-18 5C

Evaluation of the Thermal Effects of a Nuclear Power Plant,
W76-09496 9-18 5C

A Site Study of the Multiple Effects of Thermal Releases on the Aquatic Life in an Estuarine Area,
W76-09505 9-18 5C

SMEETS, J.
Quality Control and Harmonization Programmes for the Assessment of Effects and the Measurement of Environmental Pollution in the European Communities,
W76-11613 9-21 5G

SMETACEK, V.
The Plankton Tower. I. A Structure to Study Water/Sediment Interactions in Enclosed Water Columns,
W76-08446 9-16 5C

The Plankton Tower. II. Release of Nutrients from Sediments Due to Changes in the Density of Bottom Water,
W76-08447 9-16 5C

SMIERZCHALSKA, K.
Behavior of Cesium-137 in Soils and Soil-Plant Systems, (In Polish),
W76-12909 9-24 5B

SMIGAJ, M. J.
Harford County Ground-Water Information: Well Records, Chemical Quality Data, and Pumpage,
W76-03912 9-08 7C

SMIKA, D. E.
Wheat Yield Models with Limited Soil Water,
W76-04559 9-10 3F

SMIKUN, T. Y.
Experimental Study of the Effect of Temperature and Degree of Oxygen Saturation on the Destruction rate of Soluble Proteins in Natural Waters, (In Russian),
W76-09078 9-17 5C

SMILES, D. E.
Infiltration of Water into Soil,
W76-04132 9-09 2G

A Note on the Use of the Philip Infiltration Equation,
W76-05411 9-11 2G

SMILEY, B.
UV-Ozone Oxidation/Sterilization Process,
W76-00243 9-01 5D

SMIRENNAYA, V. A.
The Conduct of Certain Long-Lived Isotopes in Rocks in the Case of Their Contamination with Nontechnical Effluents of the Atomic Electric Power Stations (AES), (In Russian),
W76-12908 9-24 5B

SMIRNOV, D. N.
Effluents Biochemical Purification,
W76-02823 9-06 5D

SMIRNOV, S. N.
The Outer Boundary of the Continental Shelf,
W76-12030 9-22 6E

SMIRNOV, V. V.
Possibility of Determining the Rate of Seasonal Radial Growth of Trunks and Changes in the Water Regime of Trees Using a Photometric Curve, (In Russian),
W76-08521 9-16 2I

SMIRNOV, YU. M.
Clarifiers with Suspended Sediment Layer for the Purification of Effluents (Osvetliteli so vzveshennym sloem osadka dlya ochistki stochnykh vod),
W76-11388 9-21 5D

SMIRNOVA, L. N.
Rapid Determination of the Cod of Effluents (Uskorennoe opredelenie KhPK stochnykh vod),
W76-05705 9-12 5A

SMIRNOVA, T. P.
Ecology of Planktonic Infusoria of Secondary-Oligotrophic Lake, (In Russian),
W76-11728 9-22 5C

SMIRNOVA, Z. M.
Treatment Plants for Removing Helminths from Sewage Before Its Use on Cultivated Pastures, (In Russian),
W76-06795 9-13 5D

SMIT, G.
Environmental Aspects of the Use of Starches in the Paper Industry (Hlediska ochrany zivotniho prostredi pri pouzivani skrobovych produktu v papirenskem prumyslu),
W76-05720 9-12 5B

SMITH, A. G.
Flood of June 1971 Fort Nelson and Muskwa Rivers,
W76-06367 9-13 2E

SMITH, A. J.
Aerated Sewerage Disposal,
W76-09415 9-18 5D

Proper Selection of Gravel Pack is Key to Successful Wells,
W76-05565 9-12 8C

SMITH, A. L.
Uptake of Mercury by Freshwater Clams (Family Unionidae),
W76-02331 9-05 5A

SMITH, B. P.
Acute Efects of Cadmium on Ictalurus Punctatus (Catfish),
W76-12331 9-23 5C

SMITH, B. R.
Control of the Sea Lamprey (Petromyzon Marinus) in Lake Superior, 1953-70,
W76-07250 9-14 8I

SMITH, C.
Water Pollution Control Act of 1972, Economic Impacts, Non-Ferrous Metals Industry,
W76-10565 9-20 5G

SMITH, C. C. JR
Protection of the Marine Environment,
W76-11982 9-22 5G

SMITH, C. F.
Thermal Effects of Power Plant Entrainment on Survival of Fish Eggs and Larvae: A Laboratory Assessment,
W76-12769 9-24 5C

SMITH, C. G. JR.
Underground Storage of Treated Water: A Field Test,
W76-01253 9-03 2F

SMITH, C. L.
Social Well-Being: Problems and Prospects,
W76-05368 9-11 6B

SMITH, D.
Flood Management Decisionmaking in the Connecticut River Basin: Analysis of the Existing Legal, Financial and Institutional Framework for Flood Plain Management,
W76-01599 9-04 6F

Ultrafiltration Offers 'Good' Removal of Color, COD, BOD,
W76-07522 9-15 5D

SMITH, D. B.
The Age of Groundwater in the Chalk of the London Basin,
W76-11848 9-22 2F

SMITH, D. D.
Demonstration of a Methodology for Dredg Material Reclamation and Drainage,
W76-02945 9-06

SMITH, D. F.
Natural and Agricultural Ecosystems,
W76-08667 9-16

SMITH, D. G.
Effect of Vegetation on Lateral Migration Anastomosed Channels of a Glacier Meltwa River,
W76-10940 9-20

SMITH, D. H.
Application of Real-Time Mass Spectromet Techniques to Environmental Orga Geochemistry. I. Computerized High Reso tion Mass Spectrometry and Gas Chromat raphy-Low Resolution Mass Spectrometry,
W76-09687 9-18

SMITH, D. I.
Water Tracing in Tropical Regions, The Use Fluorometric Techniques in Jamaica,
W76-10701 9-20

SMITH, D. J.
Organic Sediment Model for Wastewater O fall,
W76-09951 9-18

SMITH, D. K.
Evaluation of Short-Term Operational Polic for a Multi-Purpose Reservoir System,
W76-06420 9-13

Evaluation of the Barber - Colman Wet Process for Sewage Sludge Disposal,
W76-04164 9-09

SMITH, D. W.
Forest Management and Nutrient Cycling Eastern Hardwoods,
W76-07025 9-14

Growth of Plume Resident Fishes in La Michigan,
W76-05901 9-12

Lateral Loss of Picloram and 2,4-D from Forest Podsol During Rainstorms,
W76-06197 9-13

SMITH, E. J.
Sludge Heat Treatment: Operation a Management,
W76-09708 9-18

SMITH, F. F.
An Analysis of Dairy Waste Management A ternatives for Southern California Dairymen,
W76-10534 9-20

On the Horns of the Dairy Waste Dilemma,
W76-05175 9-11

SMITH, F. G.
Tubing-Casing Reclamation Saved Shell Ov $3 Million,
W76-10101 9-19

SMITH, F. M.
Observations on Blooms of the Dinoflagella Gyrodinium Aureolum Hulburt in the Riv Conway and its Occurrence Along the Nor Wales Coast,
W76-06245 9-13

ITH, G.
Analysis of New Chlorinated Organic Compounds Formed by Chlorination of Municipal Wastewater,
W76-12883 9-24 5A

ITH, G. B.
The 1971 Red Tide and Its Impact on Certain Reef Communities in the Mid-Eastern Gulf of Mexico,
W76-07615 9-15 5C

ITH, G. E.
Nature and History of the Nitrate Problem,
W76-01033 9-03 5B

The Role of Environmental Data Banks in Energy Resource Development,
W76-11609 9-21 5G

ITH, G. P. II.
Toward an International Standard of Environment,
W76-01970 9-04 6E

ITH, G. R.
Historical Changes in Mercury Contamination in Michigan Walleyes (Stizostedion Vitreum Vitreum),
W76-03652 9-08 5B

ITH, G. W.
Sewage Treatment Apparatus and Method,
W76-00591 9-02 5D

ITH, H. D.
The Environment and the Offshore Oil Industry in Scottish Waters - A Review. Part 1. The Developing Maritime Geographic Pattern,
W76-11945 9-22 5B

The Environment and the Offshore Oil Industry in Scottish Waters - A Review. Part 2. The Regional Pattern of Decision Making,
W76-11946 9-22 5B

Observations on the Cestode Eubothrium Salvelini in Juvenile Sockeye Salmon (Oncorhynchus Nerka) at Babine Lake, British Columbia,
W76-11624 9-21 5C

ITH, I. R.
Deep Water Waves in Lakes,
W76-01000 9-02 2H

ITH, J. C.
Expansion of Salt-Water Zone Due to Well Discharge,
W76-05133 9-11 2L

ITH, J. D.
Alongshore Coherence at Low Frequencies in Currents Observed over the Continental Shelf Off Oregon and Washington,
W76-01271 9-03 2L

University of Washington Water Stress Studies,
W76-01485 9-03 2C

ITH, J. E.
Bench-Scale High-Rate Disinfection of Combined Sewer Overflows; With Chlorine and Chlorine Dioxide,
W76-00371 9-01 5D

Regulation of Onshore and Offshore Oil Field Waste Disposal,
W76-08919 9-17 5E

Stabilization of Municipal Sewage Sludge by High Lime Dose,
W76-05081 9-11 5D

SMITH, J. G.
Chlorination in Dilute Aqueous Systems; 2,4,6-Trichlorophenol,
W76-06306 9-13 5B

SMITH, J. H.
Uncertainty in Sediment Yield From A Semi-Arid Watershed,
W76-02240 9-05 2J

SMITH, J. K.
Research and Development of NS-1 and Related Polysulfone Hollow Fibers for Reverse Osmosis Desalination of Seawater,
W76-03257 9-07 3A

SMITH, J. L.
Central Sierra Profiling Snow Gage: A Guide to Fabrication and Operation,
W76-12158 9-23 2C

Development of a Radioactive Isotope Profiling Snow Gage,
W76-12159 9-23 2C

Forest Soils and the Associated Soil-Plant Water Regime,
W76-12239 9-23 2G

Maintenance Management of Waterworks System,
W76-11254 9-21 5F

Measurement of Snowpack Wetness,
W76-12162 9-23 2C

O18/O16 Abundance Variations in Sierra Nevada Seasonal Snowpacks and Their Use in Hydrological Research,
W76-12169 9-23 2C

On Land Disposal of Liquid Organic Wastes Through Continuous Subsurface Injection,
W76-07203 9-14 5D

Remote Sensing or Snowpack Density Using Shortwave Radiation,
W76-12167 9-23 2C

Shadow Length Tables for Environmental Planning,
W76-12240 9-23 4A

Shadow Length Tables for Latitude 36 Degrees North,
W76-12249 9-23 4A

Shadow Length Tables for Latitude 38 Degrees North,
W76-12247 9-23 4A

Shadow Length Tables for Latitude 40 Degrees North,
W76-12248 9-23 4A

Shadow Length Tables for Latitude 42 Degrees North,
W76-12242 9-23 4A

Shadow Length Tables for Latitude 44 Degrees North,
W76-12244 9-23 4A

Shadow Length Tables for Latitude 46 Degrees North,
W76-12245 9-23 4A

Shadow Length Tables for Latitude 48 Degrees North,
W76-12246 9-23 4A

Shadow Length Tables for Latitude 50 Degrees North,
W76-12243 9-23 4A

Water Pollution Control Act of 1972, Economic Impacts, Petroleum Refining Industry,
W76-10560 9-20 5G

Water Yield Improvement Research of the Pacific Southwest Forest and Range Experiment Station and its Usefulness to Wildland Resource Management,
W76-12170 9-23 4C

SMITH, J. M.
Removal of Organic Carbon from Water by Oxidation with Solid Catalysts,
W76-02364 9-05 5D

SMITH, J. N.
Conserving Our Resources--The Contribution of Chemical Technology,
W76-01630 9-04 3E

SMITH, J. O.
Citizen Enforcers: Influencing Water Resources Allocation Decisions,
W76-00505 9-02 5G

Mariculture: A New Ocean Use,
W76-01956 9-04 6E

Public Rights in Georgia's Tidelands,
W76-07824 9-15 6E

SMITH, J. R.
Interdisciplinary Aspects of Water Resources Planning and Management,
W76-00061 9-01 6B

SMITH, J. W.
Interim Report on the Impact of Public Law 92-500 on Municipal Pollution Control Technology,
W76-05867 9-12 5D

Occurrence, Cause and Avoidance of the Spilling of Oil by Tankers,
W76-09314 9-17 5B

SMITH, JAMES L.
Controlling Solar Light and Heat in a Forest by Managing Shadow Sources,
W76-12241 9-23 4A

SMITH, K.
Water Temperature Variations Within a Major River System,
W76-08340 9-16 2E

SMITH, K. V. H.
Channel Flow Over Permeable Beds of Graded Spheres,
W76-08511 9-16 8B

SMITH, L. D.
Regional Planning for Land Disposal of Wastewater,
W76-11706 9-22 5D

SMITH, L. L. JR.
Acute Toxicity of Sodium Chloride, Pentachlorophenol, Guthion(R), and Hexavalent Chromium to Fathead Minnows (Pimephales Promelas) and Goldfish (Carassius Auratus),
W76-10335 9-19 5C

Fathead Minnows (Pimephales Promelas) and Goldfish (Carassius Auratus) as Standard Fish in Bioassays and Their Reaction to Potential Reference Toxicants,
W76-10336 9-19 5A

The Relationship of the 96-Hour LC50 to the Lethal Threshold Concentration of Hexavalent Chromium, Phenol, and Sodium Pentachlorophenate for Fat-Head Minnows (Pimephales Promelas Rafinesque),
W76-02325 9-05 5C

SMITH, L. M.
Ammonia Removal from Wastewater by Ligand Exchange,
W76-12611 9-23 5D

Feasibility of Using Sewage Sludge in Highway Embankment Construction,
W76-10624 9-20 5E

SMITH, M.
Traction-Driven Composite Sludge Raking Mechanism for Sedimentation Tanks,
W76-10206 9-19 5D

SMITH, M. E.
Modelling the Dynamic Response of Floodplains to Urbanization in Southeastern New England,
W76-02865 9-06 4C

SMITH, M. H.
Biochemical Genetics of Sunfish III. Genetic Subdivision of Fish Populations Inhabitating Heated Waters,
W76-03481 9-07 5C

Bird Diversity and Thermal Stress in a Cypress Swamp,
W76-03493 9-07 5C

Chemical Composition of White-Tailed Deer: Whole-Body Concentrations of Macro- and Micronutrients,
W76-10303 9-19 5C

Ecology of Artificially Heated Streams, Swamps and Reservoirs on the Savannah River Plant, the Thermal Studies Program of the Savannah River Ecology Laboratory,
W76-08870 9-17 5C

Effects of Thermal Effluent on the Fat Content of the Mosquito Fish,
W76-03467 9-07 5C

Frequency Distributions of Radiocesium Concentrations in Soil and Biota,
W76-10273 9-19 5B

Process for the Treatment of Mineral Slimes,
W76-05973 9-12 5D

Radiocesium Concentrations in Whole-Body Homogenates and Several Body Compartments of Naturally Contaminated White-Tailed Deer,
W76-10304 9-19 5C

Radiocesium Levels in Vegetation Colonizing a Contaminated Flood Plain,
W76-10298 9-19 5C

Thermal Ecology of Dragonflies in Habitats Receiving Reactor Effluent,
W76-08881 9-17 5C

SMITH, M. J.
Ion-Selective Electrodes in Environmental Research,
W76-03499 9-07 5A

SMITH, N. F.
Acute and Chronic Toxicity of Lead to Rainbow Trout Salmo Gairdneri, in Hard and Soft Water,
W76-08781 9-17 5C

SMITH, N. R.
A Simple Topographic Model of Gulf Stream Separation,
W76-06689 9-13 2L

SMITH, O. D.
How Mills Cope with Effluent Suspended Solids,
W76-05107 9-11 5D

SMITH, P.
The Dispersion of Pollutants Beneath Open Channels,
W76-11443 9-21 5B

SMITH, P. C.
Baroclinic Instability in the Denmark Strait Overflow,
W76-10693 9-20 2L

SMITH, P. E.
Process for Biochemical Reactions,
W76-05542 9-12 5D

SMITH, P. L. JR.
Cloud Seeding to Enhance Summer Rainfall in the Northern Plains,
W76-06612 9-13 3B

Determination of R-Z Relationships for Weather Radar Using Computer Optimization Techniques,
W76-06604 9-13 2B

Radar Reflectivity Factor Calculations in Numerical Cloud Models Using Bulk Parameterization of Precipitation,
W76-01860 9-04 2B

SMITH, P. M.
Modification of Fish Ladders, Bonneville Dam, Columbia River, Oregon and Washington,
W76-02547 9-06 8I

Spillway Gate Modification, Bonneville Dam, Columbia River, Oregon and Washington, Hydraulic Model Investigation,
W76-07792 9-15 8B

SMITH, R.
Cost-Effectiveness Analysis for Water Pollution Control,
W76-05324 9-11 5D

SMITH, R. A.
Effects of Condenser Destruction of Algae on Dissolved Oxygen Levels in the James River,
W76-08638 9-16 5C

Effects of Condenser Entrainment on Algal Photosynthesis at Mid-Atlantic Power Plants,
W76-08637 9-16 5C

Entrainment of Planktonic Organisms into Cooling Water Systems of Three Mid-Atlantic Thermal Power Plants,
W76-08635 9-16 5C

Primary Production,
W76-05874 9-12 5C

SMITH, R. C.
Volume-Scattering Functions in Ocean Waters,
W76-03880 9-08 2L

SMITH, R. C. G.
Accuracy of Soil Water Budgets Based on a Range of Relationships for the Influence of Soil Water Availability on Actual Water Use,
W76-02715 9-06 2G

SMITH, R. E.
Approximations for Vertical Infiltration R Patterns,
W76-12977 9-24

Attitudes and Public Participation on the H Plains Toward Groundwater Planning Management Institutions,
W76-08375 9-16

Identification of Costs to States to Perfo Certain Marine Environmental Protect Functions,
W76-04551 9-10

Soil Water,
W76-01111 9-03

SMITH, R. F.
Controlled Eutrophication: Sewage Treatm and Food Production,
W76-03575 9-08

Multiple-Use Conflicts Between Fishermen Other Users of the Ocean With a Considerat of a Possible Expanded Federal Role,
W76-12227 9-23

SMITH, R. G.
Advanced Automatic Control Strategies for Activated Sludge Treatment Process,
W76-00693 9-02

SMITH, R. G. JR.
Evaluation of Combined Applications of trafiltration and Complexation Capac Techniques to Natural Waters,
W76-09690 9-18

SMITH, R. L.
Alongshore Coherence at Low Frequencies Currents Observed over the Continental Sh Off Oregon and Washington,
W76-01271 9-03

The Dynamic Structure of the Frontal Zone the Coastal Upwelling Region Off Oregon,
W76-06695 9-13

Fe-Mn Oxide Coatings in Stream Sedim Geochemical Surveys,
W76-03412 9-07

Modal Decomposition of the Velocity Fi Near the Oregon Coast,
W76-04974 9-10

State-of-the-Art Survey and Evaluation Marsh Plant Establishment Techniques: duced and Natural; Volume II: A Selected A notated Bibliography on Aquatic and Mar Plants and their Management,
W76-06636 9-13

SMITH, R. W.
Serpentine as Adsorbent for Removal Phosphates from Water,
W76-04233 9-09

SMITH, S.
An Automatic Pumping Sampler for Evaluati the Transport of Pesticides in Suspended Se ment,
W76-00728 9-02

Degradation of DDT in an Everglades Muck Affected by Lime, Ferrous Iron a Anaerobiosis,
W76-12254 9-23

SMITH, S. A.
Aeration as a Lake Management Technique,
W76-07103 9-14

ITH, S. AUSTRHEIM
Nutrient Dynamics and Gas Production in Aquatic Ecosystems: The Effects and Utilization of Mercury and Nitrogen in Sediment-Water Microcosms,
W76-05246 9-11 5C

ITH, S. E.
Power Generation in Arizona and Its Environmental Implications,
W76-09485 9-18 6D

Water Resource Alternatives for Power Generation in Arizona,
W76-02243 9-05 3E

ITH, S. J.
Nutrient and Sediment Discharge from Agricultural Watersheds in Oklahoma,
W76-01116 9-03 2A

ITH, S. O.
Effect of Cesspool Discharge on Ground-Water Quality on Long Island, N.Y.,
W76-00308 9-01 5B

ITH, T. B.
Evaluation of Airborne Raindrop Size-Distributions Measurements for Improving Radar Rainfall Estimates,
W76-06608 9-13 2B

How to Make Your Drill String Last Longer,
W76-10109 9-19 8G

ITH, V. E.
Computer Mapping of Turbidity and Circulation Patterns in Saginaw Bay, Michigan from Landsat Data,
W76-08746 9-16 5B

ITH, V. K.
Intertemporal and Intergenerational Pareto Efficiency,
W76-07142 9-14 6B

A Simulation Model for the Management of Low Density Recreational Areas,
W76-06233 9-13 6B

ITH, W. E.
Comparative Toxicity of Polyelectrolytes to Selected Aquatic Animals,
W76-05740 9-12 5C

ITH, W. H. B.
Total Metabolism of Thermally Affected Coastal Systems on the West Coast of Florida,
W76-02021 9-05 5C

ITHSON, G. R. JR.
Reclamation of Metal Values From Metal-Finishing Waste Treatment Sludges,
W76-00370 9-01 5D

OLYAK, L. P.
Role of Groundwaters in Redistribution of Solar Radiation by a Phytocenosis, (In Belorussian),
W76-08665 9-16 2I

Soil Moisture Regime and Pigment Content in Leaves of Cereals, (In Belorussian),
W76-08304 9-16 3F

OOR, P. B.
Groundwater Resources of Altun-Kupri Area,
W76-06576 9-13 4B

OOT, G. F.
Water Temperature-Influential Factors, Field Measurement, and Data Presentation,
W76-02494 9-05 2K

SMOUSE, E. P.
Calibration of the State Water Planning Model for Sub-Basin 42-KJ of the Yellowstone River Basin,
W76-04232 9-09 4A

SMUROV, A. V.
Method of Studying the Spatial Distribution of Organisms, (In Russian),
W76-08176 9-16 7B

SMYTH, J. C.
Intertidal Organisms of an Industrialized Estuary,
W76-11815 9-22 5C

SNARSKI, V. M.
Mercury Residues in Fathead Minnows, Pimephales Promelas Rafinesque, Chronically Exposed to Methyl-Mercury in Water,
W76-00875 9-02 5C

SNEED, R. E.
Agricultural Water Demands in North Carolina,
W76-08841 9-17 3F

Evaporative Cooling of 'Delicious' Apples: The Economic Feasibility of Reducing Environmental Heat Stress,
W76-06791 9-13 3F

Total Waste Management for a Large Swine Production Facility,
W76-07181 9-14 5D

SNELLING, R. N.
Sample Tracking Data Management System,
W76-11611 9-21 7C

SNEYD, A. D.
Seepage Flow Through Homogeneous Soil into a Row of Drain Pipes,
W76-10919 9-20 4A

SNIDER, D. M.
Laboratory Modeling of Thermal Structure in Stagnant Water,
W76-00199 9-01 2H

SNIDER, R. H.
Modeling of Wind-Waves with Jonswap Spectra,
W76-09948 9-18 8B

SNIEDOVICH, M.
Comment on 'Chance-Constrained Dynamic Programming and Optimization of Water Resource Systems' by Arthur J. Askew,
W76-04567 9-10 4A

SNIR, Y.
Planning for Coastal Recreation Opportunities Near Large Urban Areas: A Study Relating Transportation and Recreation,
W76-01516 9-04 6B

SNODGRASS, W. J.
Predictive Model for Phosphorus in Lakes,
W76-03243 9-07 5B

SNOEYINK, V. L.
Active Carbon: Dechlorination and the Adsorption of Organic Compounds,
W76-00113 9-01 5D

Influence of Activated Sludge CRT on Adsorption.
W76-12636 9-23 5D

Reduction of Aqueous Free Chlorine with Granular Activated Carbon,
W76-00176 9-01 5D

SNOOK, R. D.
Limestone Treatment of Rinse Waters from Hydrochloric Acid Pickling of Steel,
W76-01641 9-04 5D

SNOW, A.
Who Will Pay for Pollution Control.--The Distribution by Income of the Burden of the National Environmental Protection Program, 1972-1980,
W76-02376 9-05 5G

SNOW, N. B.
The Effect and Fate of Crude Oil Spilt on Two Arctic Lakes,
W76-00863 9-02 5C

SNOW, R. H.
Water Pollution Investigation. Calumet Area of Lake Michigan, Volume 1,
W76-04581 9-10 5C

Water Pollution Investigation. Calumet Area of Lake Michigan, Volume 2,
W76-04582 9-10 5C

SNOW, W. E.
Production and Control of Floodwater Mosquitoes Incidental to Water Level Operations on Reservoirs of the Tennessee Valley Authority,
W76-02443 9-05 5G

SNYDER, D. P.
Seasonal and Annual Variations in the Quantities of Nitrogen, Potassium, Phosphorus, Magnesium, Calcium, and Manganese Reaching the Forest Floor as Mast in Pennsylvania and Vermont Forests,
W76-10306 9-19 5B

SNYDER, G. G.
Clearcutting and Burning Slash Alter Quality of Stream Water in Northern Idaho,
W76-02522 9-06 4A

SNYDER, G. H.
Water Repellent Soil Mulch for Reducing Fertilizer Nutrient Leaching: II. Variables Governing the Effectiveness of a Siliconate Spray,
W76-00719 9-02 3C

SNYDER, J. R.
Sewage Treatment Tank and Tube Settler,
W76-09417 9-18 5D

SNYDER, M.
Nondegradation of Water Quality: The Need for Effective Action,
W76-02092 9-05 5G

SNYDER, R. E.
How Steam Is Produced and Handled at the Geysers,
W76-05574 9-12 8C

SNYDER, R. M.
Physical Modeling of Scour Initiation and Sediment Transport in Distorted Tidal Models,
W76-10423 9-19 2L

SNYDER, W. M.
Continuous Seasonal Probability of Extreme Rainfall Events,
W76-05692 9-12 2B

A Model for Runoff of Pesticides from Small Upland Watersheds,
W76-08356 9-16 5B

A Proposed Index for Comparing Hydrographs,
W76-05157 9-11 2A

SOBEL, M. J.
Reservoir Management Models,
W76-03162 9-07 4A

SOBOTT, A. P.
Efficient Aquifer Development is Necessary to Exploit Full Yield Potential,
W76-13035 9-24 8B

SOBSEY, M. D.
Enteric Viruses and Drinking Water Supplies,
W76-03427 9-07 5F

Virus Removal and Inactivation by Physical-Chemical Waste Treatment,
W76-07999 9-15 5D

SOCHAN, P.
Hydraulic Load Fluctuation in Effluent Treatment Plants (Hydraulicke narazy na sedimentacni cistirny odpadnich vod),
W76-05699 9-12 5D

SOCHTIG, H.
Pollution Control through Utilization of Spent Sulfite Liquors from the Pulp Industry as Organic Nitrogen Fertilizer (Ein Beitrag zur umweltfreundlichen Technik durch Verwertung der Sulfitablaugen der Zellstoffindustrie als organischer Stickstoffduenger),
W76-10851 9-20 5D

SODERHJELM, L.
The Use of Waste Fibers as Absorption Material in Grass Silage,
W76-10863 9-20 5E

SODERQUIST, M. R.
Water Pollution Abatement Technology: Costs and Capabilities, Canned and Preserved Fruits and Vegetables,
W76-08187 9-16 5G

SODHI, G. S.
Studies on the Operation of Gobindsagar Reservoir,
W76-08068 9-15 4A

SOESANTO, S. S.
Environmental Quality Surveillance in Indonesia,
W76-10655 9-20 5A

SOFRONOVA, E. M.
Production of Some Mass Crustaceans of the Kuibyshev Reservoir in the Region of Sviyazh Bay, (In Russian),
W76-07935 9-15 5C

SOHN, B. I.
Evaluation of a Single-Step Bacterial Pollution Monitor,
W76-01758 9-04 5A

SOICE, V. P.
Application of a Water Quality Model to the Denver Metropolitan Area,
W76-10438 9-19 5B

SOILEAU, H. J.
Combined Drain and Flood Gate,
W76-10968 9-20 3F

SOKOL, R. A.
The Responses of Soils and Soil Microorganisms to Silver Iodide Weather Modification Agents,
W76-08670 9-16 2G

SOKOLAI, A.
Results of Hygienic and Toxicological Studies of Pesticides in Countries of the Council of Mutual Economic Assistance in 1962-1972, (In Russian),
W76-09884 9-18 5G

SOKOLOV, B. L.
Method for Reducing Single Discharge Measurements to the Average Discharge of the Low-Flow Period,
W76-06679 9-13 2E

SOKOLOV, V. P.
Polyvinyl Chloride-Based Filter Material,
W76-01664 9-04 5D

SOKOLOVA, A. A.
Determination of Lignin in Effluents (Opredelenie lignina v stochnykh vodakh),
W76-11387 9-21 5A

SOLANAS, D. W.
Responsibilities of Offshore Drilling Regulations,
W76-08918 9-17 5G

SOLAZZI, A.
Preliminary Note on the Algal Population of the Sciophilous Surface Biotopes in the Exposed Mode, of the Island of Linosa (Strait of Sicily, Italy), (In French),
W76-07952 9-15 2L

SOLBE, L. G. DE
Fisheries Implications of Water Transfers Between Catchments,
W76-07108 9-14 3E

SOLD, H.
Nomograms for Search of Symbols PU AND TU of Storm Overflow in a Mixing Conduit (Nomogramme zur Emittlung von pu und tu eines Recenueberlaufs des Mischwasserkanals),
W76-00793 9-02 5D

SOLDATOVA, S. S.
Determination of Fluorine in Drinking Water with a Cerium(III)- or Lanthanum Alizarin Complex, (In Russian),
W76-09796 9-18 5A

SOLLO, F. W. JR.
Complexes Affecting the Solubility of Calcium Carbonate in Water - Phase II,
W76-05180 9-11 8G

SOLODNIKOVA, E. A.
Trace Elements in Surface Waters of the Karaganda Oblast, (In Russian),
W76-07528 9-15 2K

SOLOMON, R. M.
Characterization of Snowmelt Runoff Efficiencies,
W76-02871 9-06 2C

Snowmelt Runoff Efficiencies on Arizona Watersheds,
W76-02866 9-06 2C

Snowmelt Runoff Efficiencies on Arizona Watersheds,
W76-03581 9-08 3B

SOLOVYKH, G. N.
Biological Production Processes in the Ural River, (In Russian),
W76-09919 9-18 5C

SOLTANPOUR, P. N.
Soil Phosphorus Availability as Measured by Displaced Soil Solutions, Calcium-Chloride Extracts, Dilute-Acid Extracts, and Lal Phosphorus,
W76-00825 9-02

SOLTERO, R. A.
Primary Production Studies on a New Res voir: Bighorn Lake-Yellowtail Dam, Monta U.S.A.,
W76-05471 9-11

The Relationship of Laboratory Algal Ass to Measurements of Indigenous Phytoplank in Long Lake, Washington,
W76-06700 9-13

Response of the Spokane River Periphy Community to Primary Sewage Effluent Continued Investigation of Long Lake,
W76-05468 9-11

SOLYOM, P.
Long-Term Stability of Waste Lignins Aquatic Systems. Part 2. Stability in Sa Water,
W76-10838 9-20

SOLYUS, A. A.
Differences in the Specific Activity of Cs13 the Components of a Freshwater Ecosystem
W76-06882 9-14

Ratio Between Cs137 and K Accumulat Coefficients in Freshwater Organisms,
W76-06873 9-14

SOMA, S.
PCB Contents in Several Species of Flat Collected in the Eastern Bering Sea, Japanese),
W76-00332 9-01

SOMAN, S. D.
Impact of Thermal and Radioactive Efflue on a Tropical Nearshore Ecosystem,
W76-09492 9-18

SOMAN, V. K.
Impact of Thermal and Radioactive Efflue on a Tropical Nearshore Ecosystem,
W76-09492 9-18

SOMASUNDARAN, P.
Advances in Interfacial Phenomena of Parti late/Solution/Gas Systems; Applications Flotation Research,
W76-10627 9-20

Interfacial Chemistry of Particulate Flotation
W76-10628 9-20

SOMAVANSHI, R. B.
Quality of Well-Waters of Northern Madh Pradesh,
W76-05146 9-11

SOMAYAJULU, B. L. K.
An Improved Method of Silicon-32 Measu ment of Groundwaters,
W76-02455 9-05

SOMERS, G. F.
The Role of Plant Residues in the Retention Cadmium in Ecosystems,
W76-01813 9-04

SOMERVILLE, A.
Ozone Contact System Fits into Tight C Chamber,
W76-03223 9-07

MIYA, I.
On the Nitrogen Behavior in the Process of Ozone Treatment (Ozon shori ni okeru chisso no kyodo ni tsuite),
W76-03221 9-07 5D

On The Ozone Treatment as Pre-Treatment of Activated Sludge (Kassei oden shori no maeshori to shiteno ozon shori),
W76-03215 9-07 5D

MMER, S.
Biological Effects of High-Energy Electron Irradiation of Municipal Sludge,
W76-09522 9-18 5C

MMER, U.
Possibilities of Waste Water Irrigation in Forests (Moeglihckeiten der Abwasserverreiselung in Waldbestaenden),
W76-00366 9-01 5D

MMERFELDT, T. G.
Outflow from Various Subsurface Drainage Materials,
W76-08669 9-16 4A

MMERFIELD, M. R.
The Phytoplankton of Canyon Lake, Arizona,
W76-02459 9-05 5C

MMERS, L. E.
Determination of Total Nitrogen in Natural Waters,
W76-08355 9-16 2K

Effect of Wet-Air Oxidation on the Chemical Composition of Sewage Sludges,
W76-12462 9-23 5D

NGER, J. G.
Controlled Eutrophication: Sewage Treatment and Food Production,
W76-03575 9-08 5D

NIASSY, R. N.
Effects of Color and Toxic Constituents of Bleached Kraft Mill Effluent on Algal Growth,
W76-09300 9-17 5C

NSTEGAARD, M. H.
Regional Response Through Port Development: An Economic Case Study on the McClellan-Kerr Arkansas River Project,
W76-02623 9-06 6B

NTHEIMER, H.
Analytical Determination of Organic Chloro-Compounds By Temperature-Programmed Pyrohydrolysis (Zur Analytischen Erfassung Organischer Chlorverbindungen Mit Der Temperaturpro-Gammierten Pyrohydroyse),
W76-01766 9-04 5A

A New Method for Determination of Organically Bound Carbon in Water by Photochemical Oxidation (Ein Neues Verfahren Zur Bestimmung Von Organisch Gebundenem Kohlenstoff in Wasser Durch Photochemische Oxidation),
W76-01756 9-04 5A

ONU, C. J.
Mass Transport and Dispersion Off a Tidal Inlet,
W76-09381 9-17 5G

Measurement of Swash Profile and Orbital Motion on the Beach,
W76-02394 9-05 2L

SONU, J.
Water and Air Movement in a Bounded Deep Homogeneous Soil,
W76-11695 9-22 2G

SONUGA, J. O.
Entropy Principle Applied to the Rainfall-Runoff Process,
W76-10918 9-20 2A

SONZOGNI, W.
Phosphorus Sources for the Lower Madison Lakes,
W76-06718 9-13 5B

SONZOGNI, W. C.
Effect of Nutrient Input Reduction on the Eutrophication of the Madison Lakes.
W76-00500 9-01 5G

How the Great Lakes were Evaluated,
W76-06329 9-13 5G

Public Priorities for Great Lakes Research,
W76-01515 9-04 5G

SOON, LIM GUAN
A Problem in the Use of Insecticides in Paddy Fields in West Malaysia: A Case Study,
W76-00581 9-02 5B

SOPACH, E. D.
The Significance of Diisocyanate Stability in Water in Hygienic Standardization, (In Russian),
W76-03648 9-08 5B

SOPER, A. E.
Apparatus for the in Situ Concentration of Trace Metals from Seawater,
W76-06721 9-13 5A

SOPER, P. W.
Biological Treatment of Egg Processing Wastewater,
W76-04753 9-10 5D

SOPPER, W. E.
Effects of Management Practices on Water Quality and Quantity: Penn State Experimental Watersheds,
W76-09463 9-18 4D

Experiences at Penn State with Land Application,
W76-11234 9-21 5D

Forest Management Practices as Related to Nutrient Leaching and Water Quality,
W76-09471 9-18 4C

Municipal Watershed Management: What are the Opportunities,
W76-09472 9-18 4D

Reclamation of A Burned Anthracite Refuse Bank with Municipal Sludge,
W76-10249 9-19 5E

Revegetating Bituminous Strip-Mine Spoils with Municipal Wastewater, Part I: Grass and Legume Establishment,
W76-03821 9-08 5E

Revegetating Bituminous Strip-Mine Spoils with Municipal Wastewater, Part II: Quality the Leacheate and Spoil Chemical Changes,
W76-06343 9-13 5D

Spray-Irrigation of Treated Municipal Sewage Effluent and its Effect on Chemical Properties of Forest Soils,
W76-02521 9-06 5E

Water Pollution Abatement Through Forest Irrigation with Municipal Waste Water,
W76-06668 9-13 5D

Watershed Response to Partial Area Applications of Simulated Rainfall,
W76-09467 9-18 2A

SORBER, C. A.
Public Health Aspects of Land Application of Wastewater Effluents,
W76-11639 9-22 5D

SORENSEN, E. M. B.
Thermal Effects on the Accumulation of Arsenic in Green Sunfish, Lepomis Cyanellus,
W76-12731 9-24 5C

Ultrastructural Changes in the Hepatocytes of Green Sunfish, Lepomis Cyanellus Rafinesque, Exposed to Solutions of Sodium Arsenate,
W76-10062 9-19 5C

SORENSEN, J. H.
Coastal Erosion Hazard in the United States: A Research Assessment,
W76-07788 9-15 2L

Landslide Hazard in the United States: A Research Assessment,
W76-09781 9-18 6F

SORENSEN, T.
Extension of the Torshavn Breakwaters,
W76-08071 9-15 8A

SORIO, A.
Determination of Seven Trace Elements in Natural Waters After Separation by Solvent Extraction and Anion- Exchange Chromatography,
W76-02469 9-05 5A

SOROKIN, J. I.
Sulphide Formation and Chemical Composition of Bottom Sediments of Some Italian Lakes,
W76-05466 9-11 5C

SOROKIN, Y. I.
Characteristics of the Primary Production in the Salmon Breeding Lake, (In Russian),
W76-13193 9-24 5C

The Role of Microflora in the Productivity of a Salmon Breeding Lake, (In Russian),
W76-09818 9-18 5C

SOROKIN, YU. I.
Studies of Mineral Phosphate Consumption by a Tropical Water Planktonic Community, (In Russian),
W76-12308 9-23 5C

SORVACHEV, K. F.
Carp Triethyl Chloride Absorption from Water; Its Distribution in Organs and Tissues, (In Russian),
W76-07264 9-14 5C

Effect of Triethyltin Chloride on the Incorporation of Inorganic Carbon (NaHC14O3) from the Environment into Carp Metabolic Processes, (In Russsian),
W76-11732 9-22 5C

SOSEBEE, J.
Phenols in the Clark Fork River,
W76-03136 9-07 5B

SOSEBEE, R. E.
Influence of Soil-Water Potential on the Water Relationships of Honey Mesquite,
W76-00703 9-02 2D

SOSEDOV, I. S.
Investigation of the Hydrologic Characteristics of Talus,
W76-10706 9-20 2F

SOSNOW, A. D.
The Effects of Temperature on the Development and Survival of the Eggs and Larvae of the Atlantic Silverside, Menidia Menidia,
W76-03777 9-08 5C

SOTA, C.
The Toxicity of Crude Oil and Its Components to Freshwater Algae,
W76-09321 9-17 5C

SOTAK, J. B.
Method and Apparatus for Processing Refuse, Sewage and/or Waste Material into a Source of Energy,
W76-02214 9-05 5D

SOTO, C.
The Effects of Aqueous Extracts of Crude Oil and Naphthalene on the Physiology and Morphology of a Freshwater Green Alga,
W76-11404 9-21 5C

SOUCHEZ, R. A.
Chemical Sorting Effect at the Base of an Alpine Glacier,
W76-05403 9-11 2C

SOUCIE, G.
The Great Maine Lobster War,
W76-10747 9-20 6E

Here Come De Sludge,
W76-10746 9-20 6E

SOUCY, A.
Study of Coagulation of Water by Fluorometry (Etude de la Coagulation des eaux par fluorometrie),
W76-03239 9-07 5F

SOUKUP, C. L.
Wet Air Oxidation at Ontonagon,
W76-11384 9-21 5D

SOULE, D. F.
Thermal Effects and San Pedro Bay,
W76-11794 9-22 5C

SOULE, D. M.
Reservoir Effects on Property Values According to Location and Rural VS. Urban Use,
W76-11708 9-22 4A

SOULE, M. E.
Asymmetry Analysis in Fishes: A Possible Statistical Indicator of Environmental Stress,
W76-10121 9-19 5C

SOURIRAJAN, S.
Application of System Analysis in Two-Stage Reverse Osmosis Process Design for Water Desalination,
W76-08076 9-15 3A

SOUTHERLAND, E. V.
A Case Study of Non-Point Source Pollution in Virginia,
W76-04011 9-09 5B

SOUTHWARD, A. J.
Recent Cyclic Changes in Climate and in Abundance of Marine Life,
W76-12747 9-24 5C

SOUTHWORTH, G. R.
Investigating the Effects of Chlorinated Organics,
W76-12892 9-24 5C

SOUTJESDIJK, P. G.
Environmental Aspects of the Use of Starches in the Paper Industry (Hlediska ochrany zivotniho prostredi pri pouzivani skrobovych produktu v papirenskem prumyslu),
W76-05720 9-12 5B

SOUTO-MAIOR, J.
The Integrated River Basin Concept and International Water Resources Management,
W76-07138 9-14 4A

SOVA, R. E.
Sanitary-Chemical Investigation of the Migration of the Monomer from Caprolon into Water, (In Russian),
W76-12316 9-23 5B

SOWA, K.
The Water Fauna of the High Mountain Glacier Lakes in the Mandaras Valley in the High Hindu Kush, (In Polish),
W76-06166 9-13 5C

SOWA, R.
Ecology and Biogeography of Mayflies (Ephemeroptera) of Running Waters in the Polish Part of the Carpathians. 1. Distribution and Quantitative Analysis,
W76-06216 9-13 5C

SOWELL, R. S.
Agricultural Water Demands in North Carolina,
W76-08841 9-17 3F

SOYFER, A. M.
Analogous Modelling of Aquiferous Systems in Coastal Zones,
W76-10455 9-19 2L

SPAHN, I.
Precipitation Conditions Resulting in Flash Floods as Related to the Frequency Distribution of Interdiurnal Variations of the Specific Runoff in Minor Catchment Areas Unaffected by Man,
W76-00302 9-01 2E

SPAIN, A. V.
Effects of a Tropical Cyclone on Littoral and Sub-Littoral Biotic Communities and on a Population of Dugongs (Dugong Dugon (Muller)),
W76-06131 9-12 2L

SPALDING, R. F.
Effects of Land Use and River Seepage on Groundwater Quality in Hall County, Nebraska,
W76-09728 9-18 5B

SPANO, L. A.
Abatement of Nitrobodies in Aqueous Effluents From TNT Production and Finishing Plants,
W76-02442 9-05 5D

SPANO, S. J.
Monograph for the Effectiveness and Cost of Water Treatment Processes for the Removal of Specific Contaminats, Volume II, KWIK Index,
W76-06350 9-13 5F

Monograph of the Effectiveness and Cost of Water Treatment Processes for Removal of Specific Contaminants. Vol. 1. Techn Manual,
W76-09227 9-17

SPARHAM, V. R.
Method of Separating Solids Suspended Liquid,
W76-04615 9-10

SPARKS, D.
Operations Models for Central Valley Proje
W76-07237 9-14

SPARLIN, D. D.
Method for Detecting and Locating Wa Producing Zones and/or Water Thief Zone Subterranean Formations,
W76-07448 9-14

SPARLING, J. H.
The Algal Microflora of a String Mire in R tion to the Chemical Composition of Water,
W76-01200 9-03

SPATH, D. P.
Organic Chemicals in Drinking Water,
W76-03428 9-07

Organics, Water, and Health: A Re Problem,
W76-01789 9-04

SPATOLA, A. A.
The Continuous Aluminum-Foil Hydrome Sampler; Design, Operation, Data Anal Precedures, and Operating Instructions,
W76-13173 9-24

SPATZ, D. D.
Reverse Osmosis System Corrects High B Wastes: Yields Net Operating Savings,
W76-08486 9-16

SPAULDING, M. L.
Finite Difference Approximation to the C vective Transport Equation,
W76-10441 9-19

SPEAKER, D. M.
Use of Environmental Analyses on Wastew Facilities by Local Government,
W76-05072 9-11

SPEALMAN, M. L.
Lime Use in Wastewater Treatment: De and Cost Data,
W76-05868 9-12

SPEAR, R. D.
EPA's Position on Ocean Disposal in the N York Bight,
W76-05084 9-11

SPECHT, D. T.
Seasonal Variation of Algal Biomass Proc tion Potential and Nutrient Limitation Yaquina Bay, Oregon,
W76-06702 9-13

SPECKEN, G. A.
Treatment and Disposal of Waste Fluids fr Onshore Drilling Sites,
W76-08910 9-17

SPEECE, R. E.
Trout Metabolism Characteristics and the tional Design of Nitrification Facilities Water Reuse in Hatcheries,
W76-01382 9-03

PEECKE, A.
Neutron Activation Analysis for Bulk and Trace Elements in Urine,
W76-02890 9-06 5A

PEERS, G. C.
Photooxidation as a Factor in the Environmental Dispersal of Curde Oil,
W76-09389 9-17 5B

PEIR, J. A.
Use of Emergence Data for Estimating Annual Production of Aquatic Insects,
W76-12597 9-23 2I

PELL, J. E.
Determination of Nitrate in Water Samples Using A Portable Polarographic Instrument,
W76-02506 9-06 5A

PENCER, H. T.
Natural Biological Control of the Salt Marsh Mosquito in the Acid Mine Drainage Swamps in Western Kentucky,
W76-02433 9-05 5G

PENCER, J. F.
Environmental Effects of the Heated Discharges From Bradwell Nuclear Power Station, and of the Cooling Systems of Other Stations,
W76-08873 9-17 5C

PENCER, J. F. T.
Yeasts Isolated from Some Lakes and Rivers of Saskatchewan,
W76-06135 9-12 5B

PENCER, J. R.
Drain Envelope Response to Field Treatments,
W76-08548 9-16 4A

PENCER, W.
Effects of Management Practices on Water Quality and Quantity: Baltimore, Maryland, Municipal Watersheds,
W76-09464 9-18 4D

PENDLOVE, J. C.
Airborne Coliphages from Wastewater Treatment Facilities,
W76-12921 9-24 5A

PERANSKAYA, L. V.
Legal Problems of the Territorial Sea Regime,
W76-12029 9-22 6E

PERRY, S.
Allocation of Future Water Use by a Public Utility (Case Comment on Interwest Corp. V. Public Service Commission),
W76-05201 9-11 6E

PETH, S.
Purification of Waste Water Containing Organic and Inorganic Impurities,
W76-10966 9-20 5D

PEWAK, P.
Impacts of Hydrologic Modification on Water Quality,
W76-05866 9-12 5G

PIEGLER, K. S.
Study of Mass and Current Transfer in Membrane Processes,
W76-04502 9-10 3A

PIES, P. H.
Management of Water Quality Through Selected Institutions and Instruments,
W76-05453 9-11 5G

SPIESMAN, M.
Note on the Distribution of Mercury in Fish Species in Three Ohio Lakes,
W76-08441 9-16 5C

SPIESS, C.
Effect of Lindane on Trout Fry (Salmo Irideus Gibb.) Changes in Glycolytic Enzymes, (In French),
W76-12253 9-23 5C

SPIESS, F. N.
Erosion on the Line Islands Archipelagic Apron: Effect of Small-Scale Topographic Relief,
W76-06386 9-13 2L

SPIGARELLI, S. A.
Behavioural Responses of Lake Michigan Fishes to a Nuclear Power Plant Discharge,
W76-08876 9-17 5C

Body Temperature Change Characteristics of Lake Michigan Fishes,
W76-05899 9-12 5C

Body-Temperature Characteristics of Fish at a Thermal Discharge on Lake Michigan,
W76-03469 9-07 5C

Body Temperatures of Fish Feeding in The Point Beach Thermal Discharge,
W76-05900 9-12 5C

Cesium 137 Activities in Fish Residing in Thermal Discharges to Lake Michigan,
W76-12738 9-24 5C

Developments in Underwater Radiotelemetry and Preliminary Fish Tracking in Thermal Plumes,
W76-05893 9-12 5C

Effect of Plume Residence on the Accumulation of Cs137 by Lake Michigan Salmonids,
W76-05902 9-12 5C

Effects of Season, Location, and Discharge Type on Fish Distribution and Density in Thermal Plumes,
W76-05896 9-12 5C

Fish Behavior at a Thermal Discharge into Lake Michigan,
W76-02012 9-05 5C

Growth of Plume Resident Fishes in Lake Michigan,
W76-05901 9-12 5C

Migratory Behavior of Fish Tagged at a Nuclear Power Plant Discharge Into Lake Michigan,
W76-11281 9-21 2H

Origin of Fin-Clipped Salmonids Collected at Two Thermal Discharges on Lake Michigan,
W76-05895 9-12 5C

SPINI, G.
Oscillopolarographic Determination of Cyanide in Waste Electroplating Industrial Effluents,
W76-09822 9-18 5A

SPIRA, D. T.
Ichthyophthiriasis in the Mirror Carp Cyprinus Carpio (L): V. Acquired Immunity,
W76-07262 9-14 5C

Ichthyophthiriasis in the Mirror Carp: II. Leukocyte Response,
W76-01410 9-03 8I

SPIRIDONOV, V. K.
Production of Planktonic Crustaceans of Two Secondary Oligotrophic Lakes, (In Russian),
W76-06301 9-13 5C

SPITTLER, P.
Benthogenic Phytodetritus in Eutrophic Coastal Waters as an Energy Source for Secondary Producers, (In German),
W76-10866 9-20 5C

SPIZZICHINO, G.
Multistage Flash Evaporator for Producing Soft Water from a Saline Water,
W76-05978 9-12 3A

SPLINTER, W. E.
Center-Pivot Irrigation,
W76-10173 9-19 3F

SPLITTSTOESSER, D. F.
Use of Yeast in the Treatment of Sauerkraut Waste,
W76-04733 9-10 5D

SPOMER, R. G.
Soil and Water Conservation with Western Iowa Tillage Systems,
W76-08805 9-17 4D

SPOONER, J. A.
Systematic Development of Methodologies in Planning Urban Water Resources for Medium Size Communities: Regional Aquifer Evaluation Studies with Stochastic Inputs,
W76-11176 9-21 6B

SPOSITO, G.
On the Differential Equation for the Equilibrium Moisture Profile in Swelling Soil,
W76-06925 9-14 2G

Steady Vertical Flows in Swelling Soils,
W76-00286 9-01 2G

Volume Changes in Swelling Clays,
W76-09881 9-18 2G

SPOTILA, J. R.
Behavioral Thermoregulation of the American Alligator,
W76-02013 9-05 5C

SPRAGGS, L. D.
Three-Dimensional Simulation of Thermally-Influenced Hydrodynamic Flows,
W76-01518 9-04 5B

SPRIA, D. T.
Ichthyophthiriasis in the Mirror Carp Cyprinus Carpio (L.): IV. Physiological Dysfunction,
W76-07261 9-14 5C

SPRINGER, A. M.
Water Quality-Limited Approach to Effluent Reduction in Paper Manufacture,
W76-00048 9-01 5G

SPROUL, O.
Infrared Dry Caustic Vs. Wet Caustic Peeling of White Potatoes,
W76-06652 9-13 5D

SPROULL, J.
A Survey of the Various State Power Plant Siting Laws,
W76-12050 9-22 6E

SPRUGEL, D. G.
Miami River Watershed Project: Introduction,
W76-05886 9-12 5B

SPRY, R. J.
Sewers - Relining VS Replacement,
W76-10690 9-20 8G

SPURR, G.
United Kingdom Experience of the Physical Behaviour of Heated Effluents in the Atmosphere and in Various Types of Aquatic Systems,
W76-08863 9-17 5B

SPYRIDAKIS, D. E.
The Effects of Waste Water Diversion on Heavy Metal Levels in the Sediments of a Large Urban Lake,
W76-08754 9-17 5B

SRAGO, M.
Conifer Damage and Death Associated with the Use of Highway Deicing Salt in the Lake Tahoe Basin of California and Nevada,
W76-07796 9-15 5C

SREENIVASAN, A.
Limnological Features of a Tropical Impoundment, Bhavanisagar Reservoir (Tamil Nadu), India,
W76-06020 9-12 5C

SRINATH, E. G.
Evaluation of Methods for the Analysis of Physical, Chemical and Biochemical Properties of Poultry Wastewaters,
W76-00442 9-01 5D

Factors in the Purification of Flowing Sewage and Activated Sludge Process, Part I,
W76-05795 9-12 5D

Factors in the Purification of Flowing Sewage and Activated Sludge Process - Part 2,
W76-10513 9-20 5D

Inhibition of Nitrification by Ammonia and Nitrous Acid,
W76-11197 9-21 5D

Nitrifying Organism Concentration and Activity,
W76-12647 9-23 5D

A Technique for Estimating Active Nitrifying Mass and its Application in Designing Nitrifying Systems,
W76-06296 9-13 5A

SRINIVASAN, S.
Survey Study of Techniques to Prevent or Reduce Discharges of Hazardous Chemicals,
W76-11931 9-22 5G

SRIVASTAVA, R. C.
Water Flow Through Mixed Clays,
W76-00898 9-02 2G

SRNA, R. F.
Toxicity of Ammonia, Nitrite Ion, Nitrate Ion, and Orthophosphate to Mercenaria Mercenaria and Crassostrea Virginica,
W76-12237 9-23 5C

ST, L. S.
Some Considerations of the Chronic Effects of Petroleum in the Marine Environment,
W76-11023 9-20 5C

ST, R. A.
Drastic Reduction of the White Perch, Morone Americana, Population in the James River, Virginia,
W76-01928 9-04 5C

STAAB, K. F.
The Efficiency of Immersed Trickling Filter Plants in the Practice (Die Leistung von Tauchtropfkoerperanlagen in der Praxis),
W76-01282 9-03 5D

STABLER, M. J.
Conservation: EESG Bibliography Series:16,
W76-12953 9-24 6B

STACEY, R. L.
Automated Valves for Surface Irrigation Pipelines,
W76-01120 9-03 4A

STACEY, T. R.
Stability of Rock Slopes in Mining and Civil Engineering Situations,
W76-07322 9-14 8E

STADELMAN, P.
Biomass Parameters and Primary Production at a Nearshore and a Midlake Station of Lake Ontario During IFYGL,
W76-08825 9-17 5C

STADELMANN, M.
New Gas Heating and Economic Waste Water Purification System (Neue Gasheizung Und Kostenguenstiges Abwasserreinigungssystem),
W76-07750 9-15 5D

STADELMANN, P.
Phosphorus and Nitrogen Cycle on a Transect in Lake Ontario During the International Field Year 1972-1973 (IFYGL),
W76-09594 9-18 5C

Phytoplankton Biomass, Species Composition and Primary Production at a Nearshore and a Midlake Station of Lake Ontario During IFYGL,
W76-11426 9-21 5C

STAERK, H.
Experience with a Pilot Plant for the Irradiation of Sewage Sludge, Analytical Studies on Sewage Sludge and Plant Material,
W76-09552 9-18 5D

STAFFORD, D. A.
Microbial Aspects of Carbonisation Effluent Treatment,
W76-09712 9-18 5D

STAFFORD, D. B.
Measuring Watershed Land-Use Changes with Airphotos,
W76-08229 9-16 7B

STAFFORD, J. W.
Environmental Impacts of OCS Oil and Gas Activity,
W76-11471 9-21 6G

Florida Coastal Policy Study: The Impact of Offshore Oil Development,
W76-11468 9-21 6G

Review of Offshore Exploration in Florida,
W76-11470 9-21 6G

STAHELI, A. C.
Topographic Expression of Superimposed Drainage on the Georgia Piedmont,
W76-07553 9-15 2J

STAHL, U.
Apparatus for Continuous Dewatering of Aqueous Suspensions,
W76-08202 9-16 5D

STAHNECKER, E.
Purification of Waste Water from Styrene P
Polymer Production,
W76-04083 9-09

STAINKEN, D. M.
Preliminary Observations on the Mode of
cumulation of No. 2 Fuel Oil by the Soft
Clam, MYA Arenaria,
W76-00136 9-01

STALEY, L. M.
Biological Treatment of Egg Processing W
water,
W76-04753 9-10

STALL, J. B.
Applicability of Unit Stream Power Equati
W76-12193 9-23

Heat Assimilative Capacity of the Sanga
River,
W76-03142 9-07

ILLUDAS - The Illinois Urban Drainage
Simulator,
W76-09735 9-18

STALL, T. R.
Effect of Wastewater Composition and
Residence Time on Phosphorus Removal i
tivated Sludge,
W76-10239 9-19

STALNAKER, C. B.
Methodologies for the Determination of St
Resource Flow Requirements: An Assessm
W76-09666 9-18

STALNKAKER, C. B.
Distribution of Fishes in the Dolores
Yampa River Systems of the Upper Colo
Basin,
W76-02667 9-0

STAM, P. B. SR.
International Ocean Dumping of Indu
Chemical Waste,
W76-00968 9-02

STAM, P. JR.
Fourth Amendment Problems in the Enf
ment of Marine Conservation Laws,
W76-00967 9-02

STAMBAUGH, J. W.
An Ichthyofaunal Survey and Discussio
Fish Species Diversity as an Indicator of W
Quality, Codorus Creek Drainage, York C
ty, Pennsylvania,
W76-05634 9-12

A Preliminary Report on the Conewago C
Faunal Survey, Lancaster County, Pen
vania,
W76-05470 9-11

STAMBERG, J. B.
Carbon, Nitrogen, and Phosphorus Remo
Staged Nitrification-Denitrification Treatm
W76-01865 9-04

Single Stage Nitrification-Denitrification,
W76-01866 9-04

STAMICARBON, B. V.
Anaerobic Effluent Treatment,
W76-00856 9-02

'AMM, K. R.
Development Priorities in the West River Region, North Dakota, A Social Attitude and Communication Analysis,
W76-04007 9-09 6B

'ANBRO, W. D.
Mechanical-Draft Cooling Tower Visible Plume Behavior: Measurements Models, Predictions,
W76-04817 9-10 5B

'ANCIL, F. E. JR.
Determination of Dissolved Gases in Water by Diffusion and Gas Chromatographic Techniques,
W76-02427 9-05 5A

'ANDIFORD, F. C.
Conversion of Desalination Plant Brines to Solids,
W76-06248 9-13 3A

'ANESCU, V. AL.
A Mathematical Model for Flood-Wave Forecasting by Means of Warning Basins,
W76-12829 9-24 4A

'ANFORD, C.
Development and Field Testing of a Basin Hydrology Simulator,
W76-05745 9-12 2A

'ANFORD, G.
Nitrogen Conservation Under Corn Planted in Quackgrass Sod,
W76-08541 9-16 3F

'ANFORD, G. B.
Morbidity Risk Factors From Spray Irrigation With Treated Waste Waters,
W76-03546 9-08 5C

'ANGL, E. W.
Developments in Backwashing of Granular Filters,
W76-01745 9-04 5D

'ANGLAND, H. G. JR.
The Southeast Florida Experience in Resolving Development and Environment Conflicts,
W76-07153 9-14 6G

'ANISLAWSKA, J.
Limnological Character of Experimental Reservoirs Treated with Tritox 30% (DDT, DMDT, GAMMA HCH),
W76-06012 9-12 5C

'ANKOWSKI, S. J.
Flood of July 21, 1975 in Merger County, New Jersey,
W76-04986 9-10 2E

'ANLEY, A. B.
Making the World Safe for Ground Water,
W76-09360 9-17 5B

'ANLEY, A. D.
Combined Balance Studies at Selected Glacier Basins in Canada,
W76-01242 9-03 2C

'ANLEY, H. I.
Relative Growth of Different Species of Marine Algae in Wastewater-Seawater Mixtures,
W76-10989 9-20 5C

'ANLEY, J.
An Evaluation of Cost-Benefit Analysis Criteria,
W76-06227 9-13 6B

STANLEY, R. A.
Interaction of Calcium and 2,4-D on Eurasian Watermilfoil,
W76-01141 9-03 4A

Optimum Dilution of Swine Wastes for Growth of Lemna Minor L. and Euglena Sp,
W76-07191 9-14 5D

STANLEY, S. E.
Organics in Drinking Water, Part I-Listing of Identified Chemicals,
W76-03850 9-08 5A

STAPLES, D. G.
Distribution of Bdellovibrio Bacteriovorus in Sewage Works, River Water, and Sediments,
W76-09698 9-18 5A

STAPLES, K. D.
The Tyneside Sewerage Scheme,
W76-09184 9-17 5D

STAPLEY, C. E.
Filter Media Comparison at Prince George Pulp and Paper (Limited),
W76-09286 9-17 5D

STARK, R. M.
Literature Review: Movement of Spilled Oil at Sea,
W76-10599 9-20 5B

Random Model of Evaporation of Oil at Sea,
W76-11462 9-21 5B

STARK, W. H.
Process for Reducing the Amount of Calcium Contained in Magnesium-Base Waste Sulfite Liquor by the Use of an Ammonium Compound and Additional Calcium,
W76-01669 9-04 5D

STARKEY, R. J. JR.
The Investigation of Ion Removal From Water and Wastewater,
W76-07060 9-14 5D

STARMACH, K.
Algae from Montane Streams on the Island of Mahe, in the Seychelles,
W76-06205 9-13 5C

Algae in the Gebel Marra Mts in West Sudan,
W76-06206 9-13 5C

STARMER, R.
Guide to the Costing of Water from Nuclear Desalination Plants,
W76-05436 9-11 3A

STARNER, J. W.
Determination of Uranium in Natural Waters by Neutron Activation Analysis,
W76-11398 9-21 5A

STAROBOGATOV, YA. I.
Subtropical Freshwater Shrimp Macrobrachium Nipponense (De Haan) (Palaemonidae) In Ponds Near Moscow, (In Russian),
W76-02590 9-06 2I

STARODUBTSEV, E. D.
Sanitary Characterization of the Saratov Reservoir in the Region of an Oil Refinery, (In Russian),
W76-02380 9-05 5B

STARODUBTSEV, E. G.
Accumulation of the Iron Group Elements by Phytoplankton, (In Russian),
W76-02772 9-06 5B

STAROSOLSZKY, E. O.
Hydrometric Tasks Establishing the Decision Making on River Basin Development,
W76-04558 9-10 4A

STARR, J. L.
Linear Dispersion in Finite Columns,
W76-02921 9-06 2G

Solute Dispersion in Saturated Soil Columns,
W76-12986 9-24 5B

STARR, R. B.
New York Bight Project, Water Column Sampling Cruises No 1-5 of the NOAA Ship FERREL, August-November 1973,
W76-03187 9-07 7C

STARTZ, R.
Water Pollution Control Act of 1972, Economic Impacts, Pulp and Paper Industry,
W76-10559 9-20 5G

STATHAM, M.
The Use of Adenosine Triphosphate Measurements in the Control of the Activated Sludge Process by the Solids Retention Time Method,
W76-05065 9-11 5D

STATS, R.
Cooperation With The Soil Conservation Service,
W76-02650 9-06 6E

STAUCH, P.
Apparatus for Separating Low-Density Liquid from a Relatively More Dense Liquid Substantially Immiscible Therewith,
W76-06473 9-13 5G

STAUDE, C. R.
Effects of Salmon Cannery Wastes on Water Quality and Marine Organisms,
W76-00861 9-02 5C

STAUFFER, J. R.
Body Temperature Change of Bluegill Sunfish Subjected to Thermal Shock,
W76-00865 9-02 5C

Laboratory and Field Temperature Preference and Avoidance Data of Fish Related to the Establishment of Standards,
W76-07494 9-15 5C

Relationships Between Sediment Oil Concentrations and the Macroinvertebrates Present in a Small Stream Following an Oil Spill,
W76-01910 9-04 5C

STAUFFER, J. R. JR.
A Field Evaluation of the Effects of Heated Discharges on Fish Distribution,
W76-08088 9-15 5C

Summer Distribution of Fish Species in the Vicinity of a Thermal Discharge New River, Virginia,
W76-12717 9-24 5C

STAUFFER, T. B.
The Evaporation and Degradation of N-Nitroso Dimethyl Amine in Aqueous Solutions,
W76-12852 9-24 5B

STAVCHANSKII, A. O.
Forecasting the Danger of Organic Compounds in the Environment, (In Russian),
W76-11734 9-22 5C

STEADMAN, J. R.
Pollution of Surface Irrigation Waters by Plant Pathogenic Organisms,
W76-08230 9-16 5B

STEARNS, F.
Environmental Status of the Lake Michigan Region, Volume 10. Vegetation of the Lake Michigan Drainage Basin,
W76-02560 9-06 2I

STEARNS, M. O.
Pollution-Free Well Cuttings Disposal Apparatus,
W76-10464 9-19 5G

STEBBINS, S. M.
Law of the Sea: A State Must Exercise Substantial Continuous and Recognized Authority to Establish a Body of Water as a Historic Bay,
W76-12004 9-22 6E

STEBLYUK, M. V.
Problem of Blood-Sucking Flies in the Zones Affected by Big Water Reservoirs in the Ukrainian SSR, (In Russian),
W76-08991 9-17 5G

STECK, H. J.
Private Influence on Environmental Policy: The Case of the National Industrial Pollution Control Council,
W76-04346 9-09 6G

STECKLEY, R. C.
Fracturing in the Zone Around a Blasthole, WhitePine, Minnesota,
W76-00035 9-01 8B

STEDMAN, J. V.
'Catty' Odours in Sewage Works,
W76-00266 9-01 5D

STEELE, H. A.
Multiobjective Planning of Water and Land Resources,
W76-02721 9-06 6B

STEELE, J. C.
Sprinkler Irrigation Design Criteria for Sugar Beets,
W76-12374 9-23 3F

STEELE, K. F.
Trace Element Composition of Stream Sediments, An Integrating Factor for Water Quality,
W76-00377 9-01 5A

STEELE, T. D.
An Environmental Assessment of Impacts of Coal Development on the Water Resources of the Yampa River Basin, Colorado and Wyoming--Phase-II Work Plan,
W76-11500 9-21 5C

An Environmental Assessment of Impacts of Coal Development on the Water Sources of the Yampa River Basin, Colorado and Wyoming--Phase-I Work Plan,
W76-10135 9-19 4C

Hydrologic Evaluation of Salinity Control and Reclamation Projects in the Indus Plain, Pakistan--A Summary,
W76-06453 9-13 5G

The Role of Network Design in the Management and Control of Streamflow Water Quality,
W76-04995 9-10 5G

Water Quality,
W76-03395 9-07 5B

STEEN, D.
UNOX System Pilot Plants-Two Years' Experience with Pure Oxygen in the Activated Sludge Process,
W76-01740 9-04 5D

STEENHUIS, T. S.
Evaluation of a Soil Nitrate Transport Model,
W76-07453 9-15 5B

Nutrient Losses from Manure Under Simulated Winter Conditions,
W76-07187 9-14 5B

STEFAN, H.
Flow Establishment and Initial Entrainment of Heated Water Surface Jets,
W76-00679 9-02 5B

STEFANAC, Z.
Extraction - Visible Spectrophotometric Method for Determination of Nitrate: Application to Water Analysis,
W76-05717 9-12 5A

STEFANESCU, T.
Method for Determination of Acrylonitrile and Acetonitrile in Waste Waters (Metoda Pentru Determinarea Acrilonitrilului Si Acetonitrilului in Apel Reziduale),
W76-02810 9-06 5A

STEFANI, B.
Adige and Po: Chemical Analyses and Varius Water Examinations Carried out at Polesine in 1974 (Adige E Po: Analise Chimiche E Indagine Varie Sulle Acque Effecttuats in Polesine Durante L'Anno 1974),
W76-02195 9-05 5A

STEFANI, D. F.
Interagency Investigations of a Persistent Oil Spill on the Washington Coast. Animal Population Studies, Hydrocarbon Uptake by Marine Organisms, and Algae Response Following the Grounding of the Troopship General M.C. Meigs,
W76-09324 9-17 5C

STEGER, H. F.
Sorption of Trace Quantities of Metal Ions by Bentonite Clay from a Thiosalt Medium,
W76-04214 9-09 5D

STEGER, R. D.
Hydrologic Data for Urban Studies in the San Antonio, Texas Metropolitan Area, 1973,
W76-03406 9-07 7C

STEGMAN, E. C.
Plant Water Stress Criteria for Irrigation Scheduling,
W76-13024 9-24 2G

STEGMAN, J. J.
Accumulation, Release, and Retention of Petroleum Hydrocarbons by the Oyster, Crassostrea Virginica,
W76-11018 9-20 5C

STEIDINGER, K. A.
Implications of Dinoflagellate Life Cycles on Initiation of Gymnodinium Breve Red Tides,
W76-07619 9-15 5C

STEIGMAN, H.
Pennsylvania Uses Creative Approach to Water Quality Management Planning,
W76-01796 9-04 5G

STEIMLE, S. E.
Upflow Filter for Potable Water Productio
W76-00222 9-01

STEIN, A. H.
Apparatus and Process for Treating
Waste Materials,
W76-05122 9-11

STEIN, H.
Monitoring and Automatic Filter Control
Dreis-Tiefenback Treatment
(Betriebsueberwachung und Automatisch
tersteuerung der Aufbereitungsanlage
Tiefenbach),
W76-09679 9-1

STEIN, J. L.
Concentration of Brewery Spent Grain L
Using a Submerged Combustion Evaporat
W76-04744 9-1

STEIN, L.
Behavior of Lobsters (Homarus American
a Semi-Natural Environment at Ambient
peratures and Under Thermal Stress,
W76-12761 9-2

STEIN, M. E.
Rehabilitating an 80-Year Old Sewer Syst
W76-05764 9-1

STEIN, P.
The Preservation and Storage of Urine Sa
for the Determination of Mercury,
W76-07959 9-1

STEIN, R.
Commentary On: Alternate Approach
Order: International Ocean Organization
Their Regulatory Functions,
W76-07343 9-1

Testing and Application of Static Aerator
W76-11372 9-2

STEIN, R. E.
Responsibility and Liability for Harm
Marine Environment,
W76-12012 9-2

STEIN, R. M.
Design and Performance of Physical-Ch
and Activated Sludge Treatment for an
Oil Plant,
W76-08293 9-1

How Mills Cope with Effluent Susp
Solids,
W76-05107 9-1

STEINBERG, M. L.
Continuing Measurements of a Swelling
a Ponded Cut,
W76-12818 9-2

STEINBERGER, M. F.
Some Issues Regarding Regulatory
Political Participation, and Social Impli
of Geothermal Resource Development
Imperial Valley,
W76-11328 9-2

STEINER, A. E.
The Nature of Activated Sludge Flocs,
W76-09188 9-1

STEINER, W. E.
State Water Planning,
W76-02735 9-

Water for Energy as Related to Water Rights in the Colorado River Basin,
W76-00748 9-02 6D

STEINKE, P.
Nitrates in Wisconsin Ground Water,
W76-03803 9-08 5B

STELLER, D. D.
California Coastal Processes Study,
W76-02045 9-05 7B

STELMAKH, B. M.
Improved System for the Purification of Waste Waters at the LVOV Board Mill (Udoskonalena skhema ochistki stichnikh vod na l'vivs'kiikartoni fabritsi,
W76-11392 9-21 5D

STELTING, K. M.
Ion-Selective Electrodes in Environmental Research,
W76-03499 9-07 5A

STEMAN, H. T.
Effect of Surfactants on the Spectrophotometric Determination of Phosphate by Direct and Extraction Procedures,
W76-10027 9-19 5A

STEMBERGER, A. P.
Economics of Manure Handling,
W76-00479 9-01 5D

STEMBERGER, R. S.
Temporal and Spatial Distributions of Planktonic Rotifers in Milwaukee Harbor and Adjacent Lake Michigan,
W76-11285 9-21 2H

STEMPKOVSKAYA, L. A.
Quality of Potatoes Grown on Fields Irrigated with Wastewaters of Coal-Tar Chemical and Metallurgical Plants, (In Russian),
W76-12355 9-23 5C

STENGEL, R. F.
Inductive Cavitator Keeps Filter Gratings Clear of Debris,
W76-09677 9-18 5D

STENGELIN, V.
Purifying Polluted Effluent,
W76-02825 9-06 5D

STENNER, R. D.
Heavy Metals in Organisms of the Atlantic Coast of S.W. Spain and Portugal,
W76-11961 9-22 5B

STENQUIST, R. J.
Lime Use in Wastewater Treatment: Design and Cost Data,
W76-05868 9-12 5D

STENSBY, P. S.
Accumulation and Eliminating Studies of Four Detergent Fluorescent Whitening Agents in Bluegill (Lepomis Macrochitus),
W76-00318 9-01 5A

Removal of Detergent Fluorescent Whitening Agents from Waste Water,
W76-05804 9-12 5D

STENSTROM, B. H.
Method and Device for Ascertaining Small Amounts of Oil in Water,
W76-13156 9-24 5A

STEPANENKO, G. A.
Experimental Effect of Boron on Anticarious Action of Fluorine in Drinking Water, (In Russian),
W76-09885 9-18 5F

Study of Fluorine in the Ukraine and the Endemic Fluorosis Connected Therewith (Izuchenie ftora na Ukraine i svyazannogo nim endemicheskogo flyuroza),
W76-03254 9-07 5C

STEPANESCU, E.
Investigations on the Water Regime of the Main Soil Types of the Cris River Plain, (In Romanian),
W76-12856 9-24 2G

STEPANOV, V. A.
Absorption Cleaning of Organic Effluent Vapours,
W76-07530 9-15 5D

STEPHAN, D. G.
Project Cure,
W76-11661 9-22 5D

STEPHEN-HASSARD, Q. D.
A Systems Approach to Effluent Abatement by Hawaii's Sugar Cane Industry,
W76-04746 9-10 3E

STEPHEN, R. C.
Prediction of Plant Response to Fertilisers by Means of Soil Tests,
W76-00491 9-01 3F

STEPHENS, D. W.
Determination, Storage, and Preservation of Low Molecular Weight Hydrocarbon Gases in Aqueous Solution,
W76-09834 9-18 2K

STEPHENS, J. A.
Concentrations of Total Mercury and Methyl Mercury in Fish and Other Coastal Organisms: Implications to Mercury Cycling,
W76-10283 9-19 5B

STEPHENS, J. C.
Hydrologic Reconnaissance of the Pine Valley Drainage Basin, Millard, Beaver, and Iron Counties, Utah,
W76-11683 9-22 4B

STEPHENS, S. K.
Field Study of Evaporation--Catalogue of Data for Phase I,
W76-03724 9-08 2D

STEPHENSON, D.
Wisconsin's Groundwater: An Invaluable Resource,
W76-00881 9-02 2F

STEPHENSON, G. R.
Sediment Yield from Southwest Idaho Rangeland Watersheds,
W76-01086 9-03 2J

STEPIN, A. A.
On the Role of the Alimentary Route in Cs137 Accumulation by Gudgeon,
W76-06880 9-14 5C

STEPKO, W. E.
Phosphorus Removal Demonstration Studies at C.F.B. Trenton, Phase II,
W76-10490 9-19 5D

STEPP, J. M.
A Review of Sewer Charge Experience in South Carolina,
W76-04512 9-10 5D

STERLING, H. J. JR.
Hydrodynamic Separation of Solids from Solid-Liquid Mixtures,
W76-09716 9-18 5D

STERLING, L.
The Impact of Flooding Upon Land Values in the Big Black River Basin,
W76-11330 9-21 6C

STERN, C. D.
Unconventional Nuclear Power Plant Siting Options and Water Resource Impacts,
W76-03135 9-07 5G

STERN, E.
Domestic Water Filtration Apparatus,
W76-09862 9-18 5F

STERN, G.
Methods for Reducing the Infection Hazard of Waste-Water Sludge,
W76-09514 9-18 5D

STERNBERG, R. W.
Continuous Light-Scattering Profiles and Suspended Matter Over Nitinat Deep-Sea Fan,
W76-03886 9-08 2L

STERNBERG, Y. M.
Theory and Application of the Skin Effect Concept to Ground Water Wells,
W76-00399 9-01 8B

STETSON, J. R.
Tritium and Deuterium as Water Tracers in Hydrologic Systems,
W76-02870 9-06 5B

STETSON, L. E.
Irrigation System Management for Reducing Peak Electrical Demands,
W76-08549 9-16 3F

Power Factors and Electrical Demands of Center-Pivot Irrigation Machines,
W76-08770 9-17 3F

STETZER, R. H.
Pure Oxygen Treatment of Wastewater,
W76-00354 9-01 5D

STEUHSER, A. G.
Combined Treatment of Domestic and NSSC Mill Effluents,
W76-03999 9-08 5D

STEVEN, D. M.
Organic Productivity of Inshore and Offshore Waters of Barbados: A Study of the Island Mass Effect,
W76-09938 9-18 5C

STEVEN, W.
Process Control as an Aid to Pollution Control,
W76-03795 9-08 5G

STEVENS, A. A.
Chlorination of Organics in Drinking Water,
W76-12881 9-24 5C

STEVENS, F.
First Pollution-Free Bleached Kraft Mill Gets Green Light,
W76-04763 9-10 5D

STEVENS, H. H. JR.
Discharge and Flow Distribution, Columbia River Estuary,
W76-02143 9-05 5B

Distribution of Radionuclides in the Columbia River Streambed, Hanford Reservation to Longview, Washington,
W76-00664 9-02 5B

Water Temperature-Influential Factors, Field Measurement, and Data Presentation,
W76-02494 9-05 2K

STEVENS, J. D.
Population Balance Use in Dilute Impurity Problems,
W76-12914 9-24 5B

STEVENS, M. A.
Riverbank Recessions for Power Plant Facilities,
W76-09973 9-18 8B

Safety Factors for Riprap Protection,
W76-11856 9-22 8B

STEVENS, R. J.
Semi-Automated Ammonia Probe Determination of Kjeldahl Nitrogen in Freshwaters,
W76-06391 9-13 5A

STEVENS, T. G.
Exchange Properties of a Soil Used for the Disposal of Alkali Cannery Wastes,
W76-04737 9-10 5E

STEVENS, T. H.
Equity and Water Resource Development,
W76-04508 9-10 6B

Evaluation of Public Investments: Distributional Impacts of Water Resource Projects,
W76-04530 9-10 6B

STEVENSON, J. R.
The Caracas Session in Review: Remarks on the Second Session of the Third Law of the Sea Conference,
W76-07331 9-14 6E

Lawmaking for the Seas,
W76-01402 9-03 6E

The Third United Nations Conference of the Law of the Sea: The 1974 Caracas Session,
W76-00932 9-02 6E

U. S. Defines Position on 200-Mile Economic Zone at Conference on the Law of the Sea,
W76-11984 9-22 6E

STEVENSON, K. R.
Effects of Water Stress on Leaf Respiration, Transpiration Rates in the Dark and Cuticular Resistance to Water Vapor Diffusion of Two Corn Inbreds,
W76-06266 9-13 2D

STEVENSON, L. H.
The Santee Swamp as a Nutrient Sink,
W76-10288 9-19 5C

STEVENSON, W. H.
A Review of Initial Investigations to Utilize Erts-1 Data in Determining the Availability and Distribution of Living Marine Resources,
W76-02041 9-05 7B

STEWARD, B. W. JR.
Water Pollution,
W76-03921 9-08 5G

STEWARD, F. A.
Pilot Plant Optimization of phosphoric Acid Recovery Process,
W76-00676 9-02 5D

STEWARD, K. K.
Assessing a Marsh Environment for Wastewater Renovation,
W76-00892 9-02 5D

STEWART, B. R.
Liquid Manure Management for Swine,
W76-01030 9-03 5E

STEWART, B. W. JR.
Water Allocation,
W76-03920 9-08 4A

STEWART, C. E.
Agriculture and Salinity Control in the Colorado River Basin.
W76-04565 9-10 5G

STEWART, E.
A Thermodynamic Model for Steady State Metabolism of Phytoplankton, Part I. Theory,
W76-08944 9-17 5C

STEWART, G. L.
Microplankton of the North Pacific Central Gyre. I. Population Structure and Abundance, June 1973,
W76-08949 9-17 5C

New Tritium Data on Movement of Groundwater in Western Fresno County, California,
W76-03388 9-07 5B

Tritium and Deuterium as Water Tracers in Hydrologic Systems,
W76-02870 9-06 5B

STEWART, J. E.
Red Crab (Geryon Quinquedens) and Snow Crab (Chionoecetes Opilio) Resistance to Infection by the Lobster Pathogen Aerococcus Viridans (Var.) Homari,
W76-10882 9-20 5C

STEWART, J. I.
Irrigating Corn and Grain Sorghum with a Deficient Water Supply,
W76-08544 9-16 3F

Water Production Functions and Predicted Irrigation Programs for Principal Crops as Required for Water Resources Planning and Increased Water Use Efficiency,
W76-12236 9-23 3F

STEWART, J. W. B.
Flow Injection Analysis. Part IV. Stream Sample Splitting and Its Application to the Continuous Spectrophotometric Determination of Chloride in Brackish Waters,
W76-09339 9-17 5A

STEWART, M. J.
Regina Tertiary Treatment Plant Study and Design, Part I, Case History,
W76-09178 9-17 5D

Regina Tertiary Treatment Plant Study and Design, (Part II),
W76-10516 9-20 5D

Vertical Static Tube Aerators: Evaluating Their Performance,
W76-10223 9-19 5D

STEWART, N. E.
Nitrate Nitrogen Distribution in Corn I Following Applications of Digested Sew Sludge,
W76-03814 9-08

STEWART, P. T.
Black River Barometer Watershed in Rel to the Resource Manager,
W76-06599 9-13

STEWART, R. J.
Oil Spills and Offshore Petroleum,
W76-11092 9-20

STICH, H. F.
Release of the Carcinogen Benzo(a) Py from Environmentally Contaminated Muss
W76-12328 9-23

STICKNEY, R. R.
Concentrations of Total Mercury and M Mercury in Fish and Other Coastal Organ Implications to Mercury Cycling,
W76-10283 9-19

Heavy-Metal Concentrations in Selected G gia Estuarine Organisms with Compar Food-Habit Data,
W76-10282 9-19

STICKNEY, W.
Operating Data of a Vertical Plane Sur Falling Film Evaporator Using Slurry and Concentration Feeds,
W76-06250 9-13

STILES, D. A.
Preliminary Environmental Survey, Nev Army Ammunition Plant, Newport, Ind January, 1973,
W76-10056 9-19

STILL, P. J.
Index of Surface Water Quality Record September 30, 1973, Southeast Alaska,
W76-03400 9-07

STILLER, M.
Carbon-13 Enriched Carbonate in Inter Waters of Lake Kinneret Sediments,
W76-12140 9-22

Turnover and Uptake of Dissolved Phos in Freshwater: A Study in Lake Kinneret,
W76-07430 9-14

STILLINGS, B. R.
Biological Availability of Mercury in Swor (Xiphias Gladius),
W76-07694 9-15

STINNETT, S.
Nitrogen in the Subsurface Environment,
W76-09662 9-18

STIPP, J. J.
Radiocarbon Ages of Ground Water as a for the Determination of Safe Limits of A Exploitation,
W76-00363 9-01

STIRLING, E. A.
Some Effects of Pollutants on the Behavi the Bivalve Tellina Tenuis,
W76-11960 9-22

STOBER, Q. J.
A High Capacity Sand Filter for Th Power Plant Cooling Water Intakes P Model Studies and Fouling C Techniques,
W76-08660 9-1

OCK, J. N.
Heat Treatment for the Control of Marine Fouling at Coastal Electric Generating Stations,
W76-04916 9-10 5C

OCKER, W. F.
In-Plant Waste Abatement,
W76-07656 9-15 5D

OCKFISCH, J. A.
Cost-Benefit Analysis, Property Right Specification and 'Distribution',
W76-11162 9-21 6B

OCKHOLM, J. L.
Can New York's Wetlands be Saved. A Constitutional and Common Law Solution,
W76-01964 9-04 6E

OCKTON, C. W.
Long-Term Streamflow Records Reconstructed from Tree Rings,
W76-01708 9-04 2B

Riparian Dendrochronology: A Method for Determining Flood Histories of Ungaged Watersheds,
W76-11523 9-21 4A

OCKTON, J. D.
Wastewater Sludge Utilization and Disposal Costs,
W76-09773 9-18 5D

ODDARD, A.
Water Quality Model of the Lower Fox River, Wisconsin,
W76-11316 9-21 5B

OECKL, W.
The Mercury Contents of Fish from Carinthian Lakes, (In German),
W76-07981 9-15 5C

OERMER, E. F.
Storm Induced Relationships Among Chemical Conditions and Phytoplankton in Saginaw Bay and Western Lake Huron,
W76-11282 9-21 5C

OESSELL, R. K.
A Nonsteady State Method for Determining Diffusion Coefficients in Porous Media,
W76-04942 9-10 2F

OFFER, J. O.
Accumulation of Mercury by Fish of the Little Piney River and Mill Creek,
W76-07670 9-15 5A

OIMENOFF, L. E.
Flood Plains of the South Branch Shiawassee River, Livingston County, Michigan,
W76-07113 9-14 2E

OKES, P.
Uptake and Accumulation of Copper and Nickel by Metal Tolerant Strains of Scenedesmus,
W76-08452 9-16 5C

OKES, P. M.
Heavy-Metal Tolerance in Algae from Contaminated Lakes Near Sudbury, Ontario,
W76-01197 9-03 5C

OKES, R. B.
More Water: One City's Plan,
W76-13097 9-24 6D

STOKES, R. M.
The Effect of In Vivo Chromium Exposure on Na/K- and Mg-ATPase Activity in Several Tissues of the Rainbow Trout (Salmo Gairdneri),
W76-10337 9-19 5C

STOLBOV, D. I.
Drinking Water Purification in Industrially Manufactured Compact Installations of the Type 'Struya', (In English),
W76-08579 9-16 5F

STOLLE, S.
Contribution on the Knowledge of the Organic in the Coastal Waters of the GDR: V. the Variability of the Chemical Oxygen Consumption at Selected Stations of the Waters in the Shallow Inlets to the South of the Zingst Peninsula During the Synoptic Investigation in 1972, (In German),
W76-12916 9-24 5B

STOLZY, L. H.
Response to Three Semidwarf Mexican Wheats to Different Aeration Conditions in the Rooting Medium at a Constant Salinity Level,
W76-00710 9-02 3C

STOM, D. I.
Effect of Phenols and their Oxidation Products on Aquatic Plants and Content of Sulfhydryl Groups in Them, (In Russian),
W76-05276 9-11 5C

STONE, C. M.
The Economics of the West Coast Oil Spill Clean-up Industry,
W76-01624 9-04 5G

STONE, D.
Microscreening and Diatomite Filtration,
W76-03671 9-08 5F

STONE, D. L.
Silver in Photoprocessing Effluents,
W76-05732 9-12 5D

STONE, H. W.
Libby, McNeill Solves an Odor Problem,
W76-08502 9-16 5D

STONE, J. C.
An Integrated Power Process Model for Ethylene Production,
W76-04554 9-10 5D

STONE, L. J.
Dieldrin and DDT: Accumulation from Water and Food by Lake Trout (Salvelinus Namaycush) in the Laboratory,
W76-11279 9-21 5C

STONE, L. R.
Water Movement Within the Root Zone of Irrigated and Nonirrigated Grain Sorghum,
W76-05994 9-12 2G

STONE, R.
Effluent Detention Ponds Dechlorinate Wastewater,
W76-09678 9-18 5D

Procedure for Plutonium Analysis of Large (100 g) Soil and Sediment Samples,
W76-08613 9-16 5A

Water Reclamation: Technology and Public Acceptance,
W76-11705 9-22 5D

STONE, R. W.
Upgrading Lagoon Effluent for Best Practicable Treatment,
W76-00240 9-01 5D

STONEBERG, E. G.
Economic Considerations Involved in Selecting Types of Confinement and Waste Disposal Systems for Swine and Beef,
W76-11043 9-20 5D

STONEBRIDGE, M. A.
Re-Use of Sewage Effluent and Sludge,
W76-03326 9-07 5D

STONER, J. D.
A Numerical Model of Material Transport in Salt-Wedge Estuaries, Part II. Model Computation of Salinity and Salt-Wedge Dissolved Oxygen in the Duwamish River Estuary, King County, Washington,
W76-02482 9-05 2L

STONER, L. B.
Waste Treatment Facilities for Jones and Laughlin Steel Corporation, Hennepin Works,
W76-02445 9-05 5D

STONES, T.
Experimental Work on the Settlement of Sewage,
W76-05067 9-11 5D

STOPINSKI, M.
Studies on Metabolic Activity of Planktonic Bacteria Isolated from Three Lakes,
W76-07097 9-14 5C

STOPKA, K.
Method and Apparatus for Purification,
W76-01135 9-03 5D

Method and Apparatus for Purifying Waste Waters and Separating Sludge,
W76-01466 9-03 5D

STORA, G.
Computation of Lethal Concentrations,
W76-11711 9-22 5A

STORCH, W. V.
Managing South Florida's Groundwater Aquifer,
W76-12002 9-22 4B

Water Management During Drought Events,
W76-12000 9-22 4A

STORCK, W. J.
Asbestos and Chlorinated Organics Top AWWA Discussions,
W76-01786 9-04 5F

STOREBO, P. B.
Small Scale Topographical Influences on Precipitation,
W76-07556 9-15 2B

STOREY, D. J.
Water Pollution, EESG Bibliography Series: 17,
W76-12963 9-24 5G

STORIE, J. M.
Comparison of Ecological Impacts of Postulated Oil Spills at Selected Alaskan Locations. Volume I. Introduction, Summary, Methodology, Evaluation and Appendices,
W76-12379 9-23 5C

STORM, P. C.
Biological Effects of Simulated Discharge Plume Entrainment at Indianpoint Nuclear Power Station, Hudson River Estuary, USA,
W76-09497 9-18 5C

STORR, D.
Gamma--The Psychrometer Non-Constant,
W76-01473 9-03 2D

STORR, J. F.
Plankton Entrainment by the Condenser Systems of Nuclear Power Stations on Lake Ontario,
W76-02011 9-05 5C

Response of Perch and Their Forage to Thermal Discharges in Lake Ontario,
W76-02015 9-05 5C

STORRS, P. N.
Petroleum Inputs to the Marine Environment from Land Sources,
W76-05140 9-11 5B

Regional Water Quality Management,
W76-12147 9-22 5G

STOTT, P.
Water Authorities' Research Needs,
W76-03325 9-07 5D

STOUT, P. R.
Farm Animal Manures: An Overview of Their Role in the Agricultural Environment,
W76-10548 9-20 5G

STOUT, W.
Kiln Dust from Cement Factories for Vacuum Filter Processing of Sewage Sludge,
W76-03214 9-07 5D

STOVBUN, I. I.
Device for Aerating Water Bodies, (In Russian),
W76-12311 9-23 5G

STOVER, E. L.
Evaluating Rotating Biological Contactor Performance,
W76-09173 9-17 5D

One-Step Nitrification and Carbon Removal,
W76-00352 9-01 5D

One- Versus Two-State Nitrification in the Activated Sludge Process,
W76-11203 9-21 5D

STOWE, R. F.
Diplomatic and Legal Aspects of Remote Sensing,
W76-10584 9-20 6E

STOWERS, K. L.
Effect of Cacodylic Acid and MSMA on Microbes in Forest Floor and Soil,
W76-05940 9-12 5C

STOYER, R.
Wastewater Treatment in a Pressure Pipe,
W76-00785 9-02 5D

STRAIN, B. R.
The Effect of Decreasing Water Potential On Net CO2 Exchange of Intact Desert Shrubs,
W76-02529 9-06 2I

STRAIN, P. J.
Sea-Water Oil Spill Cleaning System,
W76-04271 9-09 5G

STRAND, J. W.
Sources of Water Quality, Lake Level, Ice, Water Temperature, and Meteorological Data for the St. Lawrence Great Lakes,
W76-11363 9-21 7C

STRAND, R. E.
The Hawaiian Archipelago Defining the Boundaries of the State,
W76-07818 9-15 6E

STRANDBERG, H. V.
A High Capacity Sand Filter for Thermal Power Plant Cooling Water Intakes Part II: Design Concept,
W76-08661 9-16 8I

STRANEY, D. O.
Bird Diversity and Thermal Stress in a Cypress Swamp,
W76-03493 9-07 5C

STRANGE, W. T.
Precipitate Flotation of Calcium Sulfite from Dilute Aqueous Solution with an Anionic Surfactant,
W76-10631 9-20 5D

STRANKS, D. W.
Wood Preservatives: Their Depletion as Fungicides and Fate in the Environment,
W76-09275 9-17 5B

STRASKRABOVA, V.
Self-Purification Capacity of Impoundments,
W76-08358 9-16 5C

STRATEN, G.
Recommendation for the Evaluation of the Biological Degradability of Effluents of Varying Origin (Vorschlag zur Beurteilung der Biologischen Abbaubarkeit von Abwaessern Unterschiedlicher Herkunft),
W76-09198 9-17 5A

STRATFORD, R. P.
Solar Heating to Prevent Freezing in Recording Raingauges,
W76-03857 9-08 2B

STRATHMANN, H.
Polyimide Membrane and Process for Making Same,
W76-04618 9-10 3A

STRATTON, C. L.
Cooling Towers and Water Quality,
W76-00316 9-01 5B

STRAUCH, D.
Hygienic Problems of Large Animal Confinement,
W76-11571 9-21 5G

STRAUGHAN, D.
Field Sampling Methods and Techniques for Marine Organisms and Sediments,
W76-10402 9-19 5A

Tolerance of Littorina Planaxis and Littorina Scutulata to Temperature Changes,
W76-11798 9-22 5C

STRAUMSNES, O. R.
Water Current Power Generator System,
W76-05537 9-12 8C

STRAUVEN, K.
Filtering Device,
W76-04620 9-10 5G

STRAWN, K.
Age and Growth of Bluegill, Lep
Macrochirus in Two Heated Texas Reservo
W76-02318 9-05

Annual Cycle of Sportfishing Activity
Warmwater Discharge into Galveston
Texas,
W76-10541 9-20

Numbers of Individuals and Injury Rate
Fishes Caught on Revolving Screens at th
H. Robinson Generating Station,
W76-08653 9-16

Seasonal Abundance and Distribution
Marine Fishes at a Hot-Water Discharge in
veston Bay, Texas,
W76-12718 9-24

STREEBIN, L. E.
Apparatus for Disposing of Organic W
Materials,
W76-11455 9-21

STREET, R. L.
Simulation of Thermally-Influe
Hydrodynamic Flows: Final Report,
W76-10813 9-20

Three-Dimensional Simulation of Thermall
fluenced Hydrodynamic Flows,
W76-01518 9-04

STREFFER, C.
Interaction Mechanisms of Radioac
Chemical and Thermal Releases from
Nuclear Industry, Methodology for Cons
ing Co-Operative Effects,
W76-09491 9-18

STREITER, S.
Financial Incentives and Pollution Contro
Case Study,
W76-03270 9-07

STRELKOFF, T.
Dimensionless Solution of Dam-Break F
Waves,
W76-08343 9-16

STRELTSOVA, T. D.
Analysis of Aquifer-Aquitard Flow,
W76-12836 9-24

Hydrodynamics of Groundwater Flow
Fractured Formation,
W76-12207 9-23

Unsteady Unconfined Flow into a Su
Reservoir,
W76-03744 9-08

STRETCH, C. C.
Pollution of the High Seas: The Oceans a
ternational Rivers,
W76-00964 9-02

STREVELER, G.
The Tilted Forest: Glaciological-Geologic
plications of Vegetated Neoglacial Ice at L
Bay, Alaska,
W76-11423 9-21

STRIBLING, J. B.
Furnace for Burning Sewage and
Residues,
W76-02847 9-06

IBLING, J. C.
n Evaluation of Some Recreational, Demo-raphic and Economic Impacts of Canyon ake,
/76-05506 9-12 6B

ICKER, E.
reatment of Waste Waters from a Combined ewer System (Egyesitett Rendszeru Csator-halozat Szennyvizeinek Tisztitasa),
/76-01276 9-03 5D

IER, M. P.
nickening of Sewage Sludge with Quaternary mmonium Compounds and Magnetic Fields,
/76-11266 9-21 5D

INGFIELD, V. T.
ydrology of Limestone Terranes, Progress of nowledge About Hydrology of Carbonate erranes,
/76-12813 9-24 2F

arst and Paleohydrology of Carbonate Rock erranes in Semiarid and Arid Regions with a omparison to Humid Karst of Alabama,
/76-08044 9-15 2F

INGHAM, G. E.
esign of Irrigation Runoff Recovery Systems,
/76-01702 9-04 3F

esign of Irrigation Runoff Recovery Systems,
/76-03246 9-07 3F

OEHLEIN, J. L.
ffect of Surface Applied Sulfuric Acid on Vater Penetration into Dry Calcareous and odic Soils,
/76-05907 9-12 5G

otentially Beneficial Uses of Sulfuric Acid in outhwestern Agriculture,
/76-08766 9-17 3F

OGANOV, N. S.
arp Triethyl Chloride Absorption from Water; s Distribution in Organs and Tissues, (In Rus-an),
/76-07264 9-14 5C

ffect of Triethyltin Chloride on the Incorpora-on of Inorganic Carbon (NaHC14O3) from the nvironment into Carp Metabolic Processes, n Russsian),
/76-11732 9-22 5C

OHAL, P.
etermination of 14C-DDT Radioactivity in ea Water and Marine Suspended Matter by iquid Scintillation,
/76-10518 9-20 5A

OHECKER, J. W.
enitrification of Acid Wastes from Uranium urification Processes,
/76-04843 9-10 5D

OHL, J. H.
emoval of Undesirable Cations from Acid line Water by a New Cation-Exchange laterial,
/76-11776 9-22 5D

OM, A.
eplacement of Activated Sludge Secondary larifiers by Dynamic Straining,
/76-02662 9-06 5D

OM, P. F.
oncentrations of Nitrifying Bacteria in ewages, Effluents, and a Receiving Stream and Resistance of These Organisms to Chlorination,
W76-12654 9-23 5D

STROMGREN, T.
Zooplankton Diversity in Four Norwegian Fjords,
W76-07102 9-14 5C

STRONG, A. E.
An Evaluation of ERTS Data for Oceanographic uses Through Great Lake Studies,
W76-09244 9-17 2H

Great Lakes Temperature Maps by Satellite,
W76-11300 9-21 2H

STROPPA, B. L.
Federal Legislation and Common Law Aspects of Environmental Problems in Canada,
W76-05231 9-11 6E

STROSS, R. G.
Environmental and Intrinsic Control of Filtering and Feeding Rates in Arctic Daphnia,
W76-08933 9-17 5C

Light/Dark-Phased Cell Division in Euglena Gracilis (Z) (Euglenophyceae) in PO4-Limited Continuous Culture,
W76-13117 9-24 5C

STROTHMAN, L.
Landowner's Authority to Protect Property Above Ordinary High Water Line from Seasonal Flooding,
W76-12058 9-22 6E

STROUD, K. C. G.
Development of a Gross Pollution Detector: Field Trials,
W76-00610 9-02 5A

STRUBE, L. R.
Influence of Temperature on the Photosynthetic Efficiency in Natural Populations of Marine Phytoplankton,
W76-02022 9-05 5C

STRUMPF, H.
Membrane Evaporator/Sublimator Investigation,
W76-02538 9-06 3A

Membrane Humidity Control Investigation,
W76-02539 9-06 3A

Membrane Water Deaerator Investigation,
W76-02541 9-06 5F

STRUNK, W. G.
Bulking Control Made Easy - With Hydrogen Peroxide,
W76-12664 9-23 5D

STRUZESKI, E. J.
Wastes from the Poultry Processing Industry,
W76-08292 9-16 3E

STRZELCZYK, E.
Generic Composition and Nutritional Requirements of Bacteria Isolated from Three Lakes,
W76-06120 9-12 2H

Studies on Metabolic Activity of Planktonic Bacteria Isolated from Three Lakes,
W76-07097 9-14 5C

STUART, D.
Microbiology and Chemistry Studies of Water Quality Factors in a Watershed Used for Municipal Supply and Waste Disposal,
W76-10263 9-19 5B

STUART, D. G.
Comparative Survival of Indicator Bacteria and Enteric Pathogens in Well Water,
W76-12194 9-23 5A

Development of a Rapid and Simple Test for Bacteriological Water Quality Utlizing Limulus Lysate,
W76-00174 9-01 5A

STUART, L. I.
Social Assessment Manual: A Guide to the Preparation of the Social Well Being Account,
W76-05993 9-12 6B

STUBBLEFIELD, T. M.
Cost of Producing Crops in the Irrigated Southwest, Part II: New Mexico,
W76-09475 9-18 3F

Cost of Producing Crops in the Irrigated Southwest: Part III - Nevada,
W76-00383 9-01 3F

Cost of Producing Crops in the Irrigated Southwest, Part V: Utah,
W76-09063 9-17 3F

STUBE, J. C.
Nitrogen Cycling in Microcosms and Application to the Biology of the Northern Arm of the Great Salt Lake,
W76-11778 9-22 5C

STUDHOLME, A. L.
The Effect of Temperature on the Behavior of Marine Fishes, a Comparison Among Atlantic Mackerel, Scomber Scombrus, Bluefish, Pomatomus Saltatrix, and Tautog, Tautoga Onitis,
W76-09507 9-18 5C

STULIK, R. S.
Maps Showing Ground-Water Conditions in the Lower Hassayampa Area, Maricopa County, Arizona--1975,
W76-11068 9-20 7C

STULLKEN, L. E.
Ground-Water Resources of Lane and Scott Counties, Western Kansas,
W76-12298 9-23 4B

STUMM, W.
Man's Acceleration of Hydrogeochemical Cycling of Phosphorus: Eutrophication of Inland and Coastal Waters,
W76-00620 9-02 5C

STUMPF, M. G.
An Evaluation of ERTS Data for Oceanographic uses Through Great Lake Studies,
W76-09244 9-17 2H

STURGES, D. L.
Hydrologic Relations on Undisturbed and Converted Big Sagebrush Lands: The Status of Our Knowledge,
W76-03967 9-08 2A

Oversnow Runoff Events Affect Streamflow and Water Quality,
W76-03965 9-08 4D

Oversnow Runoff Events Affect Streamflow and Water Quality,
W76-09274 9-17 2C

Sediment Transport from Big Sagebrush Watersheds,
W76-02725 9-06 4D

STURGES, D. L.

Sediment Transport from Big Sagebrush Watersheds,
W76-03966 9-08 4D

STURGES, W.
Velocity Observations in the West Passage of Narragansett Bay: A Partially Mixed Estuary,
W76-09561 9-18 2L

STURGILL, J. R.
Underdrain for Water Filtration System,
W76-11458 9-21 5F

STURM, M.
The Electro-Osmotic Guillotine, A New Device for Core Cutting,
W76-00389 9-01 8C

STURM, R. N.
Fluorescent Whitening Agents: Acute Fish Toxicity and Accumulation Studies,
W76-07713 9-15 5C

STURROCK, T. T.
Biological Control of Aquatic Vegetation,
W76-04571 9-10 3B

STUTHMANN, N. G.
Index to U. S. Geological Survey Computer Files Containing Daily Values for Water Parameters to September 30, 1971, Northeastern Region,
W76-00097 9-01 7C

STUTTE, C. A.
Influence of Water Stress and Growth Regulator Applications on Sugar Composition of Soybean Leaves,
W76-06796 9-13 2I

STYERS, F. C.
Sludge Recycling: The Winston-Salem Experience,
W76-03843 9-08 5E

STYGALL, T.
Cadmium Levels and Carbohydrate Metabolism in Limpets,
W76-11963 9-22 5C

STYRON, C. E.
Effects of Temperature and Salinity on Growth and Uptake of 65ZN and 137CS for Six Marine Algae,
W76-12238 9-23 5C

STYRON, R. W.
Process for the Treatment of Mineral Slimes,
W76-05973 9-12 5D

SU, C-L.
Resonances in Harbors with Variable Depths,
W76-10416 9-19 8B

SUAREZ, D. L.
Heavy Metals in Waters and Soil Associated with Several Pennsylvania Landfills,
W76-02569 9-06 5A

SUBBA RAO, D. V.
Growth and Dissipation of Phytoplankton in Chesapeake Bay: I. Response to a Large Pulse of Rainfall,
W76-12572 9-23 5C

SUBBARAMAYYA, J.
On The Rainfall and Water Potential of Nepal,
W76-09642 9-18 2B

SUBBOTKIN, L. D.
The Operation of the Flotating Hydrocyclone in the Clarification of Rolling Mill-Generated Wastewaters (Rabota gidrotsiklona-flotatora dlya osvetleniya stochnykh vod prokatnykh tsekhov),
W76-07541 9-15 5D

SUBLETTE, W. J.
Outdoor Recreation in the Salt-Verde Basin of Central Arizona: Demand and Value,
W76-00382 9-01 6B

SUBRAHMANYAM, C. B.
Studies on the Animal Communities in Two North Florida Salt Marshes. Part I. Fish Communities,
W76-08161 9-16 2L

SUBRAHMANYAM, P. V. R.
Effluent Treatment in Selected Organic Chemical Factories,
W76-08465 9-16 5D

SUBRAMANIAN, V.
A Note on the Effect of Chemical Treatments in the Mineralogical Studies of Sediments,
W76-01109 9-03 5A

Water Chemistry of the St. Lawrence Estuary,
W76-09581 9-18 5A

SUCHECKI, S. M.
Canton's Futuristic Waste Treatment System,
W76-08720 9-16 5D

SUDA, J. R.
Midsummer Metabolism of an Eelgrass Community,
W76-11594 9-21 5C

SUDARSANA RAJU, C.
Optimum Design of Dug-Wells in Hard Rock Terrains,
W76-01892 9-04 8E

SUDO, R.
Food Habit of Vorticellidae Isolated From Activated Sludge,
W76-08309 9-16 5D

Simulation of BOD and do Balance with Respect to a Polluted Shallow River (Part I): Mathematical Model,
W76-01777 9-04 5B

Simulation of BOD and DO Balance with Respect To Polluted Shallow-River (Part 2): Simulation Example for Middle Course Tamagawa (Asai odaku kasen ni okeru BOD, DO shushi no simurashon (Dai 2 ho): Tamagawa churyuiki e no tekiyo rei),
W76-03446 9-07 5B

SUDOL'SKIY, A. S.
Estimate of the Rate of Turbulent Mixing of the Fluid in Wind-Driven Currents from the Results of Moving and Still Particle Photography,
W76-05932 9-12 8B

SUERUECUE, G. A.
Thermophilic Aerobic Microbiological Treatment of High Strength Wastewaters and Recovery of Protein,
W76-12623 9-23 5D

SUESS, A.
Dosimetry at a High-Activity Co60 Waste Treatment Facility,
W76-09547 9-18 5D

Experience with a Pilot Plant for the Irradiation of Sewage Sludge, Analytical Studies on Sewage Sludge and Plant Material,
W76-09552 9-18 5D

Experience with a Pilot Plant for the Irradiati of Sewage Sludge; Design, Operation E perience and Cost Calculations After Months of Continuous Running,
W76-09546 9-18

Experience with a Pilot Plant for the Irradiati of Sewage Sludge, Results on the Effect of D ferently Treated Sewage Sludge on Plants a Soil,
W76-09551 9-18

SUESS, M. J.
Polynuclear Aromatic Hydrocarbon Polluti of the Marine Environment,
W76-11030 9-20

SUFFET, I. H.
Analysis of Organic Pollutants in Drinki Water,
W76-11242 9-21

SUFFLING, R.
Lateral Loss of Picloram and 2,4-D from Forest Podsol During Rainstorms,
W76-06197 9-13

SUGA, K.
Treatment of Silk Scouring Waste Water Activated Sludge Process (Ken seiren haisui kassei odei shori),
W76-04067 9-09

SUGANO, I.
Method of Extracting Heavy Metals from dustrial Waste Waters,
W76-05966 9-12

Removal of Heavy Metals from Wastewater Ferrite Coprecipitation,
W76-02577 9-06

SUGAWARA, K.
A Study on Marine Trace Elements and CS Standards, (In Japanese),
W76-08311 9-16

SUGAWARA, M.
Effect of the Operational Temperature Reverse Osmosis Method (Gyaku shinto ho okeru sosa ondo no eikyo),
W76-05592 9-12

SUGIMOTO, M.
Studies on the Treatment of Wastewater fr Food Plants with Activated Carbons. Part Model Experiments on Adsorption of Typi Organic Compounds, (In Japanese),
W76-07708 9-15

SUGIMOTO, T.
Tidal Residual Circulations in the Hydrau Model,
W76-10431 9-19

SUGIMURA, Y.
The Plutonium Content of Pacific Oce Waters,
W76-08601 9-16

SUGIURA, S.
Water Treatment in Squid Processing Wast I. Waste Water Quality, (In Japanese),
W76-07266 9-14

SUHARA, T.
Observations of the Directional Spectrum Ocean Waves Using a Cloverleaf Buoy,
W76-03738 9-08

HAYDA, J. N.
lass Movement of Mississippi River Delta ediments,
V76-01322 9-03 2L

DAN, M. T.
eduction of Aqueous Free Chlorine with ranular Activated Carbon,
V76-00176 9-01 5D

KHAREV, Y. G.
bsorption Cleaning of Organic Effluent apours,
V76-07530 9-15 5D

KHIJA, B. S.
onformity of Groundwater Recharge Rate by ritium Method and Mathematical Modelling,
V76-10700 9-20 2F

KOP, IVO.
nnual Cycle of Mayflies (Ephemeroptera) in a arstic Stream,
V76-00575 9-02 2I

KUMARAN, N.
nfluence of Upper and Lower Temperature xtremes on the Swimming Performance of ilapia Mossambica,
V76-03776 9-08 5C

LAM, D. J.
actors Affecting Declining Water Levels in a ewered Area of Nassau County, New York,
V76-13084 9-24 5B

LEIMENOVA, S. I.
ffect of Aeration on Microbiological rocesses in Flooded Soil, (In Russian),
V76-07363 9-14 2G

LFARO, A. N.
pparatus and Process for Treating Toxic Vaste Materials,
V76-05122 9-11 5D

LICK, D. J.
ctivated Carbon Fights Bad Taste,
V76-01553 9-04 5F

LLINS, J. K.
lethod and Apparatus for Precipitating Col- ids from Aqueous Suspensions,
V76-13159 9-24 5D

LLIVAN, G. V.
ecovery of Feldspar and Glass Sand from eorgia Waste Granite Fines,
V76-04073 9-09 5D

LLIVAN, J.
he Atmospheric Budgets Program of IFYGL,
V76-11436 9-21 2H

LLIVAN, J. B.
s Our Approach to the Oil Pollution Problem oo Crude,
V76-11031 9-20 5C

larine Pollution by Carcinogenic Hydrocar- ons,
V76-10413 9-19 5C

LLIVAN, L.
ight-Scattering Measurements and Chemical nalysis of Suspended Matter in the Near-Bot- om Nepheloid Layer of the Gulf of Mexico,
V76-03894 9-08 2L

LLIVAN, M. J.
Diatom Communities from a Delaware Salt Marsh,
V76-12734 9-24 5C

Diatom Communities from a Delaware Salt Marsh,
W76-13118 9-24 5C

Light, Nitrogen, and Phosphorus Limitation of Edaphic Algae in a Delaware Salt Marsh,
W76-01149 9-03 5C

SULLIVAN, M. K.
Treatment of Sea Water Produces High-Quality Reactor Coolant,
W76-04262 9-09 3A

SULLIVAN, R.
Persistence of Virus on Sewage-Irrigated Vegetables,
W76-12634 9-23 5B

SULLIVAN, R. A.
Method for the Primary and Secondary Treatment of Wastewater in a Unitary Apparatus,
W76-05972 9-12 5D

SULLIVAN, R. H.
An Analysis of U. S. Environmental Protection Agency's Needs Survey,
W76-08195 9-16 5G

The Effect of Tidal Currents on Planned Effluent Discharge in Puget Sound,
W76-04925 9-10 5B

The Helical Bend Combined Sewer Overflow Regulator,
W76-07246 9-14 5D

Review of American Public Works Association Study of Facilities Utilizing Land Application of Wastewater,
W76-03542 9-08 5D

SULLIVAN, T. A.
Wabash River Systems Model - Terminal Report Phase I,
W76-12220 9-23 4A

SUMER, S. M.
Transverse Dispersion in Partially Stratified Tidal Flow,
W76-11486 9-21 2L

SUMI, T.
Recent Trends of Process Control for Water Works and Drainage (Jogesuido purosesu seigyo no doko),
W76-09214 9-17 5G

SUMMER, W.
Destructive Air Deodorisation at a Dublin Sewage Works,
W76-09158 9-17 5D

The Physical Method of Water Sterilization,
W76-07043 9-14 5F

SUMMERFELT, R. C.
Cadmium-Induced Histopathological Changes in Goldfish,
W76-04043 9-09 5C

Eutrophication in the Great Plains,
W76-00437 9-01 5B

Fish Growth Response to Mechanical Mixing of Lake Arbuckle, Oklahoma,
W76-07587 9-15 5C

SUMMERS, C. H.
Chemical Impact of Snow Dumping Practices,
W76-10049 9-19 5C

SUMMERS, G. F.
Some Comments on Rural Development Models and Concepts,
W76-05367 9-11 6B

SUMMERS, R.
Practical Aspects of Anaerobic Digestion,
W76-12648 9-23 5D

SUMMERS, T. H.
Complete Recovery of Italian In-Plant Waste Waters,
W76-04053 9-09 5D

SUMNER, J. S.
Geothermal Water Resources in Arizona: Feasibility Study,
W76-04005 9-09 4B

SUMSION, C. T.
Developing A State Water Plan: Ground-Water Conditions in Utah, Spring of 1976,
W76-12296 9-23 4B

SUN, L. T.
Organochlorine Pesticide Residues in Cultured Fishes of Taiwan,
W76-07697 9-15 5C

SUN, R. J.
Artificial Recharge Through a Well in Fissured Carbonate Rock, West St. Paul, Minnesota,
W76-08046 9-15 4B

SUNAHARA, H.
The Measurement of MLSS Using Integrated Spherical Type Turbidimeter, (In Japanese),
W76-01445 9-03 5A

SUNDARAM, T. R.
Transient Thermal Response of Large Lakes to Atmospheric Disturbances,
W76-11439 9-21 2H

SUNDARARAJ, V.
A Survey of Environmental Features in a Section of the Vellar-Coleron Estuarine System, South India,
W76-08040 9-15 5C

SUNDATOV, V. F.
Experience in the Sanitary Protection of Water Bodies in a Raion of Moscow, (In Russian),
W76-03637 9-08 5D

SUNDBERG, T.
Two-Stage Biological Treatment for High 7-Day BOD Reduction Efficiencies,
W76-04762 9-10 5D

SUNDBY, B.
Trace Metals in the Waters of the Gulf of St. Lawrence,
W76-06024 9-12 5A

SUNDE, L. A.
Geography and Lake Morphometry of the Aquaculture Study Areain the Erickson-Elphinstone District of Southwestern Manitoba,
W76-01166 9-03 2H

SUNDGREN, S.
Two-Dimensional Finite Element Dispersion Model,
W76-10453 9-19 5B

SUNDIN, G. H.
Apparatus for Removing Oil From Water,
W76-02608 9-06 5G

SUNU, W. G.
Relative Transport Rates of Alakli Ion Across Cellulose Acetate Membranes,
W76-03960 9-08 3A

SUPER, A. B.
Field Observations of the Persistence of AgI-NH4I-Acetone Ice Nuclei in Daylight,
W76-05677 9-12 3B

SUPP, A.
Studies Concerning Oil Removal from Mill Scale (Untersuchungen Zur Entoelung Von Walzzunder),
W76-08707 9-16 5D

SUPPLISSON, B.
Bacterial Degradation and Emulsification of No. 6 Fuel Oil,
W76-04060 9-09 5D

SURATT, W. B.
Direct Contact Multi-Stage Flash Desalination,
W76-09052 9-17 3A

SURETTE, J. D.
Mini Sewage Treatment System,
W76-02216 9-05 5D

SURLES, T.
Comparative Atomic Absorption Spectroscopic Study of Trace Metals in Lake Water,
W76-02511 9-06 5A

Comparative Atomic Absorption Spectroscopic Study of Trace Metals in Lake Water,
W76-05051 9-11 5A

SURUCU, G. A.
Aerobic Thermophilic Treatment of High Strength Wastewaters,
W76-11204 9-21 5D

Thermophilic Microbiological Treatment of High Strength Wastewaters with Simultaneous Recovery of Single Cell Protein,
W76-06293 9-13 5D

SUSCHKA, J.
Effects of Activated Carbon Addition to the Activated Sludge Process (Wplyw dodatku wegla aktywnego do procesu osadu Czynnego),
W76-09175 9-17 5D

SUSCHNY, O.
The Reliability of Mercury Analysis in Environmental Materials,
W76-06007 9-12 5A

SUSTAR, J.
Effects of Suspended Solids Associated with Dredging Operations on Estuarine Organisms,
W76-03645 9-08 5C

SUSUMU,
On the Histological Structure and Function of Digestive Organs of the Fed and Starved Larvae of the Yellowtail, Seriola Quinqueradiata, (In Japanese),
W76-09088 9-17 2I

SUTCLIFFE, H. JR.
Appraisal of the Water Resources of Charlotte County, Florida,
W76-11676 9-22 4C

SUTCLIFFE JR, W. H.
Coastal Circulation and Physical Oceanography of the Scotian Shelf and the Gulf of Maine,
W76-08125 9-16 2L

SUTCLIFFE, P.
A Conductivity Flow Meter,
W76-12825 9-24 7B

SUTHERLAND, J. C.
Irrigation of Trees and Crops With Sewage Stabilization Pond Effluent in Southern Michigan,
W76-03560 9-08 5C

SUTHERLAND, R. A.
Quantitative Estimates of Petroleum to the Oceans
W76-05137 9-11 5B

SUTHERLAND, R. C.
Forecasting Urban Water Use: Commercial Establishments,
W76-01609 9-04 6D

SUTPHIN, E. M.
Trailer-Mounted Pilot Plants for Water Conservation,
W76-02800 9-06 5D

SUTTON, A. L.
A Waste Management System for a 150-Cow Dairy--A 10-Year Case Study,
W76-07174 9-14 5D

SUTTON, D. L.
Phosphorus Removal from Static Sewage Effluent Using Duckweed,
W76-05775 9-12 5D

SUTTON, E. A.
Oil Pollution Studies on Lake Maracaibo, Venezuela,
W76-00140 9-01 5A

SUTTON, P. M.
Efficacy of Biological Nitrification,
W76-03684 9-08 5D

SUTTON, W. M.
Legal Problems and Solutions to Surface-Ground-Water Management,
W76-00180 9-01 6D

SUTTON, W. W.
Development of a Biological Monitoring Network - A Test Case - Suitability of Livestock and Wildlife as Biological Monitors for Organophosphorus Contaminants,
W76-03633 9-08 5A

SUZUKI, I.
Process for Treating Aldehydes,
W76-04087 9-09 5D

SUZUKI, M.
Belt Device for Collecting Floating Matter from Water Surface,
W76-01722 9-04 5G

The Cost Assignment of the Cooperative Water Resource Development: A Game Theoretical Approach,
W76-09619 9-18 6A

Studies on Characteristics of the Surface Water Quality in Kameda District,
W76-07007 9-14 5A

SUZUKI, N.
The Radiation-Induced Degradation of Azo Dyes in Aqueous Solutions,
W76-04790 9-10 5D

SUZUKI, S.
On the Pollution of Water of Some Rivers in the Kasumigaura Lake Basin, (In Japanese),
W76-12568 9-23 5B

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W76-04040 9-09

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SVANCER, J.
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W76-07518 9-15

SVANKS, K.
Oxidation of Ammonia in Water by Ferr (VI) and (IV),
W76-10611 9-20

SVANSSON, A.
Sea Level Computations of the Baltic wi 20-Canal Model,
W76-12205 9-23

SVEHLA, R.
Remote Sensing Study of Maumee River fects on Lake Erie,
W76-12819 9-24

SVENSSON, T.
Sediment Flushing After Dredging in T Bays,
W76-12974 9-24

SVESHNIKOVA, V. M.
New Concepts on the Water Regime of Pl of the Kara Kum Desert, (In Russian),
W76-02317 9-05

SVITEL'SKII, V. P.
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W76-02465 9-05

SWAIN, A.
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W76-10607 9-20

SWAIN, F. M.
Biogeochemistry of Marsh Gases: Effect Inorganic Constituents of Marsh Plants Methane Evolution; and Carbohydrate Stab in Plants,
W76-01139 9-03

SWAIN, W. R.
Studies on the Effects of Thermal Addition Selected Zooplankton Populations,
W76-04012 9-09

SWALES, D. A.
Treatment of Sewage or Contaminated Wat
W76-00585 9-02

WALLOW, L. A.
Map Showing Flood of April 1975 at East Lansing, Michigan,
W76-01188 9-03 2E

Map Showing Flood of April 1975 at Meridian Township, Michigan,
W76-01584 9-04 7C

Map Showing Flood of April 1975 at Williamston, Michigan,
W76-01190 9-03 2E

Map Showing Flood of April 1975, Lansing, Michigan,
W76-01189 9-03 2E

WALLS, A. A.
Growth, Water Consumption, and Salt Uptake of Tomato Plants in High Humidity- High Carbon Dioxide Greenhouse Environments,
W76-09075 9-17 3C

WAMEE, P. K.
Explicit Equations for Pipe-Flow Problems,
W76-08084 9-15 8B

WAMY, N. V. C.
An Empirical Description of Wall Jet Velocity Profiles,
W76-02407 9-05 8B

WANK, W. T.
Atmospheric Input of Some Cations and Anions to Forest Ecosystems in North Carolina and Tennessee,
W76-12838 9-24 2K

Coniferous Stands Characterized with the Weibull Distribution,
W76-02276 9-05 2I

Effects of Management Practices on Water Quality and Quantity: Coweeta Hydrologic Laboratory, North Carolina,
W76-02275 9-05 5G

A Model of Water Content and Evaporation for Hardwood Leaf Litter,
W76-10270 9-19 2D

Simulation of Evapotranspiration and Drainage from Mature and Clear-Cut Deciduous Forests and Young Pine Plantation,
W76-02426 9-05 2D

Summary of Municipal Watershed Management Surveys in Eastern United States,
W76-09466 9-18 4D

WANSON, C. L.
Removal of Heavy Metal Ions from Wastewater,
W76-08402 9-16 5D

WANSON, E. R.
The Off-Site Sediment Damage Function in Selected Illinois Watersheds,
W76-03126 9-07 4D

Soil Loss from Illinois Farms - Economic Analysis of Productivity Loss and Sedimentation Damage,
W76-08533 9-16 4D

WANSON, F. J.
Geology and Geomorphology of the H. J. Andrews Experimental Forest, Western Cascades, Oregon,
W76-05941 9-12 4D

Impact of Clear-Cutting and Road Construction on Soil Erosion by Landslides in the Western Cascade Range, Oregon,
W76-05614 9-12 4C

SWANSON, J.
Color Characterization of Kraft Linerboard Decker Effluent,
W76-12472 9-23 5A

SWANSON, J. W.
Kraft Effluent Color Nature Before and After Lime Treatment,
W76-04081 9-09 5D

SWANSON, N. P.
Control, Collection, and Disposal of Feedlot Runoff,
W76-07167 9-14 5D

Direct Land Disposal of Feedlot Runoff,
W76-07183 9-14 5D

Effect of Effluent from Beef Feedlots on the Physical and Chemical Properties of Soil,
W76-04289 9-09 5B

Hydrology and Characteristics of Feedlot Runoff,
W76-00435 9-01 5B

Hydrology of Open Feedlots in the Cronbelt,
W76-03990 9-08 5B

Low-Cost Disposal Systems for Feedlot Runoff,
W76-12346 9-23 5G

Riser Intake Designs for Feedlot Solids Collection Basins,
W76-12356 9-23 5D

Runoff Control for a Creek Bank Feedlot,
W76-00454 9-01 5D

Soil Water Nitrate Beneath a Broad-Basin Terraced Feedlot,
W76-03981 9-08 5B

SWANSON, R.
A Total Recycle Unit System for Dairy Manure Management,
W76-07177 9-14 5D

SWANSTON, D. N.
The Forest Ecosystem of Southeast Alaska 5. Soil Mass Movement,
W76-05950 9-12 4D

Guidelines for Characterizing Naturally Unstable or Potentially Unstable Slopes on Western National Forests,
W76-05621 9-12 4D

Interpreting Stability Problems for the Land Manager,
W76-05947 9-12 4D

Road Standards on Steep Terrain in the Pacific Northwest U.S.A. with Suggestions for Implementation,
W76-05948 9-12 4C

Slope Stability Problems Associated with Timber Harvesting in Mountainous Regions of the Western United States,
W76-05944 9-12 4C

SWANWICK, J. D.
Some Effects of Metals Discharged in Effluents and Possibilities for Their Recovery,
W76-01639 9-04 5D

SWART, D. H.
Offshore Sediment Transport and Equilibrium Beach Profiles,
W76-11937 9-22 2L

SWARTZENDRUBER, D.
Water Flux and Electrical Potentials in Water-Saturated Bentonite,
W76-05269 9-11 2G

SWEARINGEN, J. S.
Geothermal Power Method,
W76-10470 9-19 3C

Geothermal Power System and Method,
W76-06472 9-13 3E

SWEAZY, R. M.
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W76-08278 9-16 5B

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Variation of Urban Runoff Quality and Quantity with Duration and Intensity of Storms - Phase III, Volume 4 - Project Summary,
W76-08281 9-16 5B

SWEENEY, R. J.
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W76-05816 9-12 6E

Optimal Leasing Policy for the Development of Outer Continental Shelf Hydrocarbon Resources,
W76-02375 9-05 6E

SWEENY, B. D.
Measurements of the Dielectric Properties of Wet Snow Using a Microwave Technique,
W76-02398 9-05 2C

SWEERS, H. E.
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W76-08868 9-17 5B

SWEET, H. R.
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W76-00289 9-01 4B

Monitoring Wells,
W76-09558 9-18 4B

SWEET, M. J.
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W76-11747 9-22 6G

SWEETEN, J. M.
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SWEETEN, J. M.

Committee of the Texas House of Representatives,
W76-00426 9-01 5G

Emerging Issues in Feedlot Waste Management,
W76-03968 9-08 5G

Environmental Protection Guidelines for Dairies,
W76-00428 9-01 5G

Liquid Manure Management for Swine,
W76-01030 9-03 5E

Managing a Successful Liquid Swine Manure Management System,
W76-07180 9-14 5D

Odor Intensities at Cattle Feedlots,
W76-00919 9-02 5A

SWENSON, F. A.
Potential of Madison Group and Associated Rocks to Supply Industrial Water Needs, Powder River Basin, Wyoming and Montana,
W76-00666 9-02 4B

SWERED, P.
Synergistic Compositions Containing 2,2-Dibromo-3-Nitrilopropionamide and 3,3,4,4-Tetrachlorotetrahydro-Thiopene-1,1-Dioxide and Their Use,
W76-05531 9-12 5F

SWIERKOWSKI, P. B.
A High Capacity Sand Filter for Thermal Power Plant Cooling Water Intakes Part I: Model Studies and Fouling Control Techniques,
W76-08660 9-16 8I

SWIFT, C. H. III.
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W76-04984 9-10 4A

Tests of Estimates of Preferred Spawning and Rearing Discharges for Trout in Selected Streams in Wasington,
W76-01575 9-04 8I

SWIFT, D. J. P.
New York Alternative Dumpsite Assessment - Reconnaissance Study of Surficial Sediments,
W76-09383 9-17 5G

SWIFT, J. H.
Upwelling Near Samalga Pass,
W76-09585 9-18 2L

SWIFT, L. W.
Simulation of Evapotranspiration and Drainage from Mature and Clear-Cut Deciduous Forests and Young Pine Plantation,
W76-02426 9-05 2D

SWIFT, S. A.
A Physical Model for the Rate of Deposition of Fine-Grained Sediments in the Deep Sea,
W76-08736 9-16 2J

SWINNERTON, C. J.
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W76-01062 9-03 2A

SWITHINBANK, C.
A Submarine Sonar Study of Arctic Pack Ice,
W76-05394 9-11 7B

SWOPE, D. A.
Cost of Producing Crops in the Irrigated Southwest: Part III - Nevada,
W76-00383 9-01 3F

Cost of Producing Crops in the Irrigated Southwest, Part V: Utah,
W76-09063 9-17 3F

SWOPE, H. G.
Municipal Plant Handles 44% Pulp and Paper Mill Wastes,
W76-05778 9-12 5D

SY, S. E.
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W76-05469 9-11 3B

SYBER, A. Y.
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W76-09097 9-17 2I

SYDOR, M.
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W76-02051 9-05 5A

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W76-02908 9-06 2H

SYDYKOV, ZH. S.
Subsurface Waters of Erosion Troughs in the Aktyuba Region of the Ural - A Source of Drinking Water Supply,
W76-10943 9-20 2F

SYED, M. M.
Effect of Saline Water Irrigation on N.Co310 and H50-7209 Cultivars of Sugarcane: II. Chemical Composition of Plants,
W76-06274 9-13 3C

SYED, N. C.
Inter Basin Transfer of Water Resource Case Study of Indus Project,
W76-05753 9-12 4A

SYERS, J. K.
Rationalization of Ionic Strength and Cation Effects on Phosphate Sorption by Soils,
W76-11507 9-21 2G

SYLVA, C.
Ships Waste Offload System Study. Phase I Report. Preliminary Concept Development and Economic Comparisons,
W76-04549 9-10 5D

SYLVESTER, N. D.
Disposal of Soluble Inorganic Salts,
W76-06156 9-13 5D

SYMONS, J. M.
Nitrate Removal by Anion-Exchange Resins,
W76-01562 9-04 5D

SYMULESKI, R. A.
An Evaluation of the Applicability of Pyrolysis-Gas-Liquid Chromatography for the Identification of Microorganisms in Water and Sewage Treatment Plant Effluents,
W76-11664 9-22 5A

SYROTYNSKI, S.
Microscreening and Diatomite Filtration,
W76-03671 9-08 5F

SYVERTSEN, J. P.
Anomalous Diurnal Patterns of Stem Xyl Water Potentials in Larrea Tridentata,
W76-10172 9-19

SYZDEK, L. D.
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W76-12492 9-23

SZABO, J.
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W76-12258 9-23

SZALAY, M.
Nomograms for Simplified Hydraulic Dim sioning of Waste Water Ducts (Nomogram Zur Vereinfachten Hydraulischen Bemess Von Abwasser-Kanaelen),
W76-05610 9-12

SZARON, J.
Sea Level Computations of the Baltic wit 20-Canal Model,
W76-12205 9-23

SZE, P.
Possible Effect of Lower Phosphorus Conc trations on the Phytoplankton in Onond Lake, New York, U.S.A.,
W76-13116 9-24

SZEKELY, F.
Estimation by Digital Computer of the Dr down Caused by Groundwater Withdrawal,
W76-08140 9-16

SZERENYI, I.
Some Problems of the Investigation of W Waters Generated in the Petroleum Indu (Koolajipari szennyvizek vizsgalatanak neh kerdese),
W76-06974 9-14

SZIDAROVSZKY, F.
Economic Uncertainties in Water Resou Project Design,
W76-12514 9-23

Levee System Reliability Along a Conflue Reach,
W76-03383 9-07

SZLUHA, A. T.
Potamological Effects of Fish Hatch Discharge,
W76-03650 9-08

SZOLLOSI-NAGY, A.
An Adaptive Identification and Prediction gorithm for the Real-Time Forecasting Hydrological Time Series,
W76-12980 9-24

The Role of Predictions in Water Resou Policy Making,
W76-07136 9-14

SZUMIEC, M.
The Effect of Controlled Eutrophication Solar Radiation Penetrating into Ponds, Polish),
W76-08305 9-16

SZUMSKI, D. S.
A Food Chain Model of Cadmium in Wes Lake Erie,
W76-03310 9-07

ZYMANSKI-BUCAREY, E.
The Eutrophication of the Titisee and Its Consequences for the Population Dynamics of Zooplankton: I, (In German),
W76-07281 9-14 5C

The Eutrophication of Titi Lake and its Consequences for the Population of Dynamics of Zooplankton: 2, (In German),
W76-12594 9-23 5C

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W76-10682 9-20 8G

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W76-04071 9-09 5D

ABACHNIKOV, V. I.
Apparatus for Pumping Oil-Water Mixture from a Collection Vessel of a Floating Oil Collector into Settling Tanks,
W76-08403 9-16 5G

ABASARAN, M. O.
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W76-09513 9-18 5D

ABATA, H.
Process for Pretreating Sea Water by Preheating Same in the Preparation of Brine and Fresh Water,
W76-04277 9-09 3A

ABATA, N.
Process for Pretreating Sea Water by Preheating Same in the Preparation of Brine and Fresh Water,
W76-04277 9-09 3A

ABATA, T.
Sea-Ice Reconnaissance by Radar,
W76-05387 9-11 7B

ABATABAI, M. A.
Nitrogen and Sulfur Content and pH of Precipitation in Iowa,
W76-06208 9-13 5C

ABER, J. E.
Evaluation of Digitally Corrected ERTS Images,
W76-02062 9-05 7C

ABLER, R. D.
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W76-04288 9-09 2C

ABRAH, J. G.
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W76-04266 9-09 3F

ACHIBANA, M.
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W76-08232 9-16 2L

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W76-09026 9-17 5D

TADA, H.
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W76-04294 9-09 5D

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W76-04043 9-09 5C

TAFELSKI, R. D.
Colorado City Solves its Sand Pumping Problems,
W76-05559 9-12 8C

TAFT, G.
The Third U. N. Law of the Sea Conference: Major Unresolved Fisheries Issues,
W76-10733 9-20 6E

TAFT, J.
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W76-04811 9-10 5B

TAFURI, A. N.
Urban Runoff Pollution Control Program Overview: FY'76,
W76-12857 9-24 5G

TAGLIAFERRI, G.
Multistage Flash Evaporator for Producing Soft Water from a Saline Water,
W76-05978 9-12 3A

TAHA, M. W.
Ionic Leaf Accumulation in Grapes, Guava and Olive Plants as Affected by the Salinity of Irrigation Water,
W76-06030 9-12 3C

TAHER, F. A.
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W76-03690 9-08 5E

TAI, D. Y.
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W76-09834 9-18 2K

TAIGANIDES, E. P.
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W76-07159 9-14 5G

New Waste Treatment System is used for Hogs,
W76-04436 9-09 5D

The Problem of Farm Animal Waste Disposal,
W76-01037 9-03 5E

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W76-00456 9-01 5D

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W76-02981 9-06 5D

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W76-07708 9-15 5D

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W76-04106 9-09 2C

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W76-07424 9-14 5C

TAKAHASHI, M.
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W76-08947 9-17 5C

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W76-07209 9-14 4B

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W76-09000 9-17 5D

TAKAHASHI, T.
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W76-07549 9-15 2B

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W76-08989 9-17 3C

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W76-10430 9-19 2L

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W76-11686 9-22 4B

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W76-09205 9-17 5D

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W76-10430 9-19 2L

TAKATA, Y.
Metal Analysis by Model 630-C Hitachi Liquid Chromatograph (630-C-Gata Hitachi Ekitai Kuromatographu Ni Yoru Kinzoku Bunseki),
W76-01060 9-03 5A

Method of Preventing Scale From Being Deposited In Case of Producing Fresh Water From Sea Water,
W76-05971 9-12 3A

TAKATO, M.
Waste Water Treatment Method by Water-Soluble Polymer Condensation Body (Suiyosei kobunshi shukugotai ni yoru haisu shoriho),
W76-07749 9-15 5D

TAKAYA, K.
Operation of Ozone Treatment Apparatus (Ozone shori sochi no unten),
W76-09713 9-18 5F

TAKEDA, Y.
Water Pollution Monitoring System, (In Japanese),
W76-01443 9-03 5A

TAKEMATSU, T.
Fundamental Studies on Residue and Movement of Forestry Herbicides in Soil, (In Japanese),
W76-12263 9-23 5B

TAKENAKA, H.
The Softening of the Kanto Volcanic Ash Soil, (In Japanese),
W76-09925 9-18 2G

TAKESHIMA, T.
Development of the Deep Aeration Tank, (In Japanese),
W76-01437 9-03 5D

TAKESHITA, R.
Studies on Anion Active Surfactants. I. Determination of Anion Active Surfactants in Natural and Waste Waters Using Cleanup by XAD 2 Column Chromatography (In ion kaimen kasserzai ni kansuru kenkyu (Dai 1 po)),
W76-03710 9-08 5A

TAKESSIAN, B. A.
Drainage and Reclamation Performance at the Imam Experimental Field in the Greater Mussayeb Project, a Monitoring Study,
W76-06581 9-13 3C

TAKEUCHI, D. T.
Evaluation of Airborne Raindrop Size-Distributions Measurements for Improving Radar Rainfall Estimates,
W76-06608 9-13 2B

TAKEUCHI, K.
Flowmeter for an Open Aqueduct,
W76-05540 9-12 7B

Regional Water Exchange for Drought Alleviation,
W76-05819 9-12 4A

TAKEUCHI, T.
Hydro-Separator for Slurry,
W76-02612 9-06 5D

TAKEUCHI, Y.
Fundamental Studies on Residue and Movement of Forestry Herbicides in Soil, (In Japanese),
W76-12263 9-23 5B

TAKIGUCHI, T.
Effect of the Inorganic Coagulant for the Dyeing Waste Water Treatment with Ozone, (In Japanese),
W76-00122 9-01 5D

TAKUSAGAWA, A.
Municipal Waste Water Treatment by Ozone (Ozon ni yoru toshigesui shori),
W76-09025 9-17 5D

TALAEVA, Y. G.
Direct Detection of Pathogens of Intestinal Infections in Water, (In Russian),
W76-07274 9-14 5A

TALBOT, R. C.
Fiber-Glass-Reinforced Polyesters and Furan Resins for Water- and Waste-Treatment Systems,
W76-10682 9-20 8G

TALBOT, R. S.
Textile Wastes, (Literature Review),
W76-05095 9-11 5D

TALLMARK, B.
On the Coexistence of Scavengers on Shallo Sandy, Bottoms in Gullmar Fjord (Swede Adaptations to Substratum, Temperature, a Salinity,
W76-12704 9-24

TALMAGE, S. S.
Striped Bass, A Selected, Annotated Bibli raphy,
W76-04840 9-10

Thermal Effects, (Literature Review),
W76-12703 9-24

TALMI, Y.
Determination of Zinc and Cadmium in E vironmentally Based Samples by Radiofrequency Spectrometric Source,
W76-07702 9-15

Studies on Vaporization and Halogen Deco position of Methyl Mercury Compounds Usi GC with a Microwave Detector,
W76-03638 9-08

TALPAZ, H.
Dynamic Simulation of Water Storage in F low Soil as Affected by Mulch of Hydrophol Aggregates,
W76-03365 9-07

A Microscopic-Scale Model of Soil Water U take and Salt Movement to Plant Roots,
W76-03860 9-08

TAM, W. A.
Wave Forces on Vertical Circular Cylinder,
W76-12443 9-23

TAMAI, N.
Fem Coupled with LP for Water Pollution Co trol,
W76-11134 9-21

TAMAS, G.
The Primary Production of Phytoplankton Lake Balaton April-September 1972,
W76-09992 9-18

TAMAS, M.
Experimental Program for Unwateri Digested Domestic Sewage Sludge Under Pla Conditions (Terv a Rothasztott Varosi Szc nyviztelepi Iszap Uzemi Viztelentesi Kis letere),
W76-01283 9-03

TAMASI, G.
Data on the Disinfection of Liquid Manure Gamma Irradiation at Baja, Hungary,
W76-09528 9-18

TAMATE, T.
Measurement Method for Dissolved Ammo Nitrogen in Water (Yozon anmoniasei chis nodo sokuteiho),
W76-08261 9-16

TAMERS, M. A.
Radiocarbon Ages of Ground Water as a Ba for the Determination of Safe Limits of Aqui Exploitation,
W76-00363 9-01

TAMURA, T.
Radiocesium Cycling in Vegetation and Soil,
W76-10296 9-19

TAN, F. C.
Oxygen Isotope Studies on Sea Ice in the G of St. Lawrence,
W76-12448 9-23

TAN, M.
Reverse Osmosis Treatment of Electroplating Wastes,
W76-03066 9-07 5D

TANABE, H.
Multi-Phased Model Study of the Seto Inland Sea,
W76-10430 9-19 2L

TANAKA, A.
The Distribution of Coliforms in Fresh Water, (In Japanese),
W76-09934 9-18 5C

TANAKA, K.
Apparatus for Photo-Oxidation of Water,
W76-04287 9-09 5D

The Measurement of MLSS Using Integrated Spherical Type Turbidimeter, (In Japanese),
W76-01445 9-03 5A

TANAKA, N.
Correlation of Various Monitoring Items Regarding Pollution Substances of Human Wastes and Treated Water (Shinyo to sono shorisui no odaku sibun ni kansuru kakushu sokutei komoku kan no sokan ni tsuite),
W76-03342 9-07 5A

TANAKA, T.
A Simple Metho dthe for Detection of Floating Oils on Water, (In Japan),
W76-04062 9-09 5A

TANGBORN, W. V.
A Comparison of Glacier Mass Balance by Glaciological, Hydrological and Mapping Methods, South Cascade Glacier, Washington,
W76-07125 9-14 2C

Hydrology of the North Cascades Region, Washington: 1. Runoff, Precipitation, and Storage Characteristics,
W76-08059 9-15 2A

Hydrology of the North Cascades Region, Washington: 2. A Proposed Hydrometeorological Streamflow Prediction Method,
W76-08060 9-15 2A

TANJI, K. K.
Computer Modeling of Nitrogen Transformations in Soils,
W76-00831 9-02 2G

Computer Program for Three-Dimensional Plottings from Irregular Finite Element Grid,
W76-11327 9-21 2F

A Three-Dimensional Galerkin Finite Element Solution of Flow Through Multiaquifers in Sutter Basin, California,
W76-09562 9-18 2F

TANKSLEY, N. D.
Floating Boom Having Rotatable Float Elements,
W76-04272 9-09 5G

TANNER, C. B.
Model for Predicting Simultaneous Movement of Nitrate and Water Through a Loamy Sand,
W76-12985 9-24 5B

TANNER, H. A.
The Michigan State University Water Quality Management Program,
W76-03565 9-08 5D

TANNER, R. N.
Solving Textile Wastewater Problems: Three Case Histories,
W76-04028 9-09 5D

TANNO, K.
Method of Preventing Scale From Being Deposited In Case of Producing Fresh Water From Sea Water,
W76-05971 9-12 3A

TANNUS, K.
Water Purification Process,
W76-07748 9-15 5D

TAO, F. S.
Emulsion Breaking Method,
W76-05527 9-12 5G

TAPSON, J.
A Continuous Gargantuan Task for Severn Trent,
W76-00640 9-02 5A

TARANNIKOVA, S. P.
Hygienic Standardization of DD and DDB Compounds in Water Bodies, (In Russian),
W76-02406 9-05 5B

TARDIFF, R. G.
Halogenated Organics in Tap Water: A Toxicological Evaluation,
W76-12885 9-24 5C

TARNEKAR, S. G.
Measurement of Power Input in Flocculation,
W76-00608 9-02 5F

TARNIZHEVSKII, B. V.
Determining the Power Level and Range of Solar Water-Raising Installations in the Turkmen SSR, (In Russian),
W76-03664 9-08 3F

TARON, T. D.
Criminal Prosecution Under the Alaska Environmental Conservation Act of 1971: Stock v State,
W76-01967 9-04 5G

TARRER, A. R.
Optimal Activated Sludge Design Under Uncertainty,
W76-09628 9-18 5D

TASAI, F.
Observations of the Directional Spectrum of Ocean Waves Using a Cloverleaf Buoy,
W76-03738 9-08 2L

TATE, C. H.
Wastewater Reclamation and Re-Use: The Responsibilities of the Consulting Engineer,
W76-12622 9-23 5D

TATE, J. F.
Method for Controlling Scale,
W76-10469 9-19 5G

TATE, P. S.
Acute Toxicities of Spruce and Hemlock Bark Extracts to some Estuarine Organisms in Southeastern Alaska,
W76-11393 9-21 5C

TATE, T. K.
Groundwater Conditions in the Penrith Sandstone at Cliburn, Westmorland,
W76-00309 9-01 4B

The Hydrogeological Investigation of Fissure-Flow by Borehole Logging Techniques,
W76-00417 9-01 8G

TATIBOUET, J.
Ultrasonic Properties of Plastically Deformed Ice,
W76-05384 9-11 2C

TATINCLAUX, J-C.
Design of Alternating Diffuser Pipes,
W76-10952 9-20 8B

Hydraulic Modeling of Shallow Cooling Ponds,
W76-07212 9-14 5G

A Laboratory Investigation of the Mechanics and Hydraulics of River Ice Jams,
W76-10714 9-20 2C

TATKOWSKA, E.
The Influence of Gibberellic Acid and Kinetin on the Growth of Scenedesmus Quadricauda (Turp.) Breb.,
W76-12941 9-24 5C

TATSUKAWA, R.
Gas Chromatographic (ECD) Deterimination of Coprostanol and Cholesterol as Indicators of Fecal Pollution in Water, (In Japanese),
W76-00602 9-02 5A

TATSUMI, H.
Waste Water Treating Operation Using Microbial Membrane (I). Analysis of Resistance to Movement within Liquid Phase,
W76-03230 9-07 5A

TATSUMOTO, H.
Treatment of Dyeing Waste Water with Activated Carbon (Kasseitan kyuchaku ho ni yoru senshoku haisui shori),
W76-00125 9-01 5D

TATSUTA, E.
Liquid Waste Treatment for Heavy Metals (Jukinzoku no haisui shori ni tsuite),
W76-07626 9-15 5D

TAUBER, M.
Practical Aspects of the Pasteurization of Sewage Sludge by Electron Irradiation,
W76-09540 9-18 5D

TAUBMANN, K-C.
Sewer Overflow - Evaluation of Model Test and Use in Sewer Technique (Regenueberlaeufe - Eine Auswertung von Modellversuchen mit Anwendung auf die Kanalisationstechnik),
W76-00794 9-02 5D

TAUXE, G. W.
Computer Time and Memory Requirements for DP and DDDP in Water Resource Systems Analysis,
W76-04933 9-10 6A

TAVCAR, V.
The Influence of Grass-Carp Population (Ctenopharyngodon Idella Val.) on the Vegetation and Ecosystem of Lake Trakoscan, (In Serbo-Croatian),
W76-12272 9-23 5C

TAYABJI, S. D.
Evaluation of Pavement Drainage Systems Made of Layers of Open-Graded Bituminous Aggregate Mixtures,
W76-12456 9-23 8F

TAYFUN, M. A.
(Optimal Design for Wave Spectrum Estimates,
W76-02705 9-06 2L

TAYLOR, A. R.
Board Mill Wastewater Treatment System with Countercurrent Dissolved Air Flotation Thickening and Vacuum Filter Dewatering,
W76-11380 9-21 5D

TAYLOR, B. W.
A Simulation Approach to the Analysis of Uncertainty in Public Water Resources Projects,
W76-01510 9-04 6B

TAYLOR, B. W. III
Approaches to Multiobjective Planning in Water Resource Projects,
W76-01335 9-03 6A

TAYLOR, C. E.
Spark Source Mass Spectrometry: The Optimum Referee Method for Multielement Analysis,
W76-10649 9-20 5A

TAYLOR, C. H.
Recognition and Prediction of Runoff-Producing Zones in Humid Regions,
W76-07073 9-14 2E

TAYLOR, D.
The Acute Toxicity of Dissolved Elemental Phosphorus to Cod (Gadus Morhua),
W76-08450 9-16 5C

TAYLOR, D. G.
Kinetics of Viral Inactivation by Bromine,
W76-00118 9-01 5F

TAYLOR, D. H.
Evaluating State Drinking Water Quality Surveillance Programs,
W76-03430 9-07 5F

Evaluation of State Drinking-Water-Quality Surveillance Programs,
W76-00634 9-02 5F

Evaluation of State Drinking-Water-Quality Surveillance Programs,
W76-05233 9-11 5G

Problems of Individual Supplies,
W76-03434 9-07 5F

TAYLOR, F. E.
Concentrations of Total Mercury and Methyl Mercury in Fish and Other Coastal Organisms: Implications to Mercury Cycling,
W76-10283 9-19 5B

Heavy-Metal Concentrations in Selected Georgia Estuarine Organisms with Comparative Food-Habit Data,
W76-10282 9-19 5C

TAYLOR, F. G.
Environmental Effects of Chromium and Zinc in Cooling-Water Drift,
W76-04822 9-10 5C

TAYLOR, F. J.
Chemical Analyses of Campbell Island Fresh Water,
W76-09395 9-17 2K

TAYLOR, F. J. R.
Taxonomic Difficulties in Red Tide and Paralytic Shellfish Poison Studies: The 'Tamarensis Complex' of Conyaulax,
W76-07614 9-15 5C

TAYLOR, F. W.
Evaporator-Condenser Unit for Producing Potable Water From Sewage,
W76-05960 9-12 5D

TAYLOR, G. S.
Coupled Saturated-Unsaturated Transient Flow in Porous Media: Experimental and Numeric Model,
W76-05684 9-12 2F

Drainage System Effects on Physical Properties of a Lakebed Clay Soil,
W76-09259 9-17 2G

Heat and Mass Transfer in Cold Region Soils,
W76-03001 9-07 2G

TAYLOR, H. E.
The Application of Spark Source Mass Spectrometry to the Analysis of Water Samples,
W76-06945 9-14 5A

TAYLOR, H. M.
Water Relations of Cotton. I. Root Growth and Water Use as Related to Top Growth and Soil Water Content,
W76-00824 9-02 3F

Water Uptake by Cotton Root Systems: An Examination of Assumptions in the Single Root Model,
W76-00306 9-01 2I

TAYLOR, J. D.
Free Oscillations in Bays and Harbors,
W76-10420 9-19 8B

TAYLOR, J. E.
Water Quality and Bioassay Study from Crawford National Fish Hatchery,
W76-07257 9-14 5C

TAYLOR, J. K.
Pollutant Analysis Cost Survey,
W76-10259 9-19 5A

TAYLOR, J. M.
Hydrologic Data for Little Elm Creek, Trinity River Basin, Texas, 1973,
W76-01181 9-03 2E

Hydrologic Data for Little Elm Creek, Trinity River Basin, Texas, 1974,
W76-10144 9-19 7C

Hydrologic Data for Urban Studies in the Fort Worth, Texas Metropolitan Area, 1974,
W76-10141 9-19 7C

TAYLOR, M. M.
Principal Components Colour Display of ERTS Imagery,
W76-02064 9-05 7C

TAYLOR, M. P.
Biological Monitoring in Wheeler Reservoir Before Operation of Browns Ferry Nuclear Plant,
W76-02017 9-05 5C

TAYLOR, M. R. G.
Objectives and Costs of Advanced Treatment Techniques for Sewage,
W76-09449 9-18 5D

Sewage Treatment to Meet Tomorrow's Needs,
W76-00264 9-01 5D

TAYLOR, O. J.
Artificial-Recharge Experiments in the Alluvial Aquifer South of Fountain, El Paso County, Colorado,
W76-08571 9-16 4B

TAYLOR, P. H.
Regional Response Through Port Development: An Economic Case Study on the McClellan-Kerr Arkansas River Project,
W76-02623 9-06 6B

TAYLOR, R.
The Effects of Increasing Salinity on Pyramid Lake Fishery,
W76-08753 9-17

TAYLOR, R. E.
Automatic Water Sprinkler for Irregular Ar
W76-10959 9-20

Possible Influence of Atmospheric Trans on the Total Mercury Content of Southeas Atlantic Continental Shelf Surface Waters,
W76-09224 9-17

TAYLOR, W. W.
The Planktonic Crustaceans of Moncove L Monroe County, W. Va.,
W76-06214 9-13

TCHAN, Y. T.
Treatment of Industrial Waste Solutions Production of Useful By-Products Usin Photosynthetic Bacterial Method,
W76-02811 9-06

TCHERNEV, D. I.
Device for Solar Energy Conversion by Ph Electrolytic Decomposition of Water,
W76-04621 9-10

TCHOBANOGLOUS, G.
Another Look at the NRC Formula,
W76-00368 9-01

Mass Transfer Limitations on Trickling F Design,
W76-12608 9-23

Method and Apparatus for the Activa Sludge Treatment of Wastewater,
W76-10208 9-19

Trace Elements in Biological Waste Treatm with Specific Reference to the Activa Sludge Process,
W76-03700 9-08

TEAL, J. M.
Accumulation, Release, and Retention Petroleum Hydrocarbons by the Oyster, C sostrea Virginica,
W76-11018 9-20

Analyses of Hydrocarbons in Marine Org isms: Results of Idoe Intercalibration E cises,
W76-10398 9-19

Analysis of Hydrocarbons in Marine Org isms: Results of IDOE Intercalibration Ex cises,
W76-01901 9-04

The Effect of Fertilization on the Species Co position of Salt Marsh Diatoms,
W76-08774 9-17

Export of Lead from Salt Marshes,
W76-11717 9-22

Reduction of Field Populations of Fidd Crabs by Uptake of Chlorinated Hydrocarbo
W76-11588 9-21

TEARE, M.
Intertidal Fauna of the Industrialized Fo Estuary,
W76-11818 9-22

TEAS, H. J.
Herbicide Toxicity in Mangroves,
W76-11192 9-21

TEBBUTT, T. H. Y.
Pilot-Scale Wastewater Treatment Studies,
W76-07045 9-14 5D

TEBO, L. B. JR.
Boone Creek Oil Spill,
W76-00147 9-01 5C

TECLAFF, L. A.
Environmental Implications of River Basin Development Including Water Quality Management: General Report,
W76-07134 9-14 5G

Legal and Administrative Control of the Impact of River Basin Development on the Environment,
W76-07135 9-14 4A

TEESDALE, C.
Breeding Places and Seasonal Incidence of Aedes Aegypti, as Assessed by the Single-Larva Survey Method,
W76-06033 9-12 5G

TEICHLE, D. E.
A Theoretical Basis for Ecosystem Analysis with Particular Reference to Element Cycling,
W76-10268 9-19 5C

TEIXEIRA, EDRED NOVAES
Bacterial and Coliform Counts in the Water Supply of Slaughter Houses Situated in the Vicinity of Salvador-Bahia: Brief Note, (In Portuguese),
W76-11525 9-21 5A

TEJIMA, S.
Removal of Ammonia Nitrogen by Catalytic Oxidation Filter Bed (Sesshoku sanka rosho ni yoru ammonia-set chisso no jokyo),
W76-05589 9-12 5D

TEL, D. A.
Exchange Properties of a Soil Used for the Disposal of Alkali Cannery Wastes,
W76-04737 9-10 5E

TELEK, G.
Using a CHN Analyzer to Reduce Carbonate Interference in Particulate Organic Carbon Analyses,
W76-09940 9-18 5A

TELETZKE, G. H.
Treatment and Disposal of Sewage Sludge,
W76-10204 9-19 5D

TEMMEL, F. M.
Case History on Acid Mine Drainage Control,
W76-01650 9-04 5G

TEMOIN, P.
Design Considerations of Foam Separation Process for Detoxification of Kraft Effluents,
W76-09292 9-17 5D

TEMPLER, O. W.
Institutional Constraints and Conjunctive Management of Water Resources in West Texas,
W76-05842 9-12 6E

TEMPLETON, W. L.
Effects of Thermal and Chemical Discharges from Nuclear Power Plants,
W76-10051 9-19 5C

Oil Pollution Studies on Lake Maracaibo, Venezuela,
W76-00140 9-01 5A

TEN WOLDE, J. G.
Industrial Experience of Sewage Sludge Processing with Zimpro Installations in the Netherlands,
W76-09709 9-18 5D

TENG, W. L.
Remote Sensing of Ground and Surface Water Contamination by Leachate from Landfill,
W76-10666 9-20 5A

TENIERE-BUCHOT, P. F.
The 'Polpole' Model: An Attempt to Analyse the Water System in the Financial Agency of a French River Basin,
W76-12556 9-23 4A

TENN, T.
Detoxification and Decolorization of Kraft Pulp Mill Effluents using Activated Carbon,
W76-09298 9-17 5D

TENNEY, M. W.
Automation of Water Supply Systems,
W76-12817 9-24 5F

TENNIS, P. S.
Phosphorous Flux Through Fishes,
W76-09104 9-17 5C

TENORE, K. R.
Comparison of the Food Chain Dynamics of the Polychaete, Nereis Virens Cultured on Animal Tissue and Detritus,
W76-10998 9-20 5C

Control of Species Composition in Enriched Mass Cultures of Natural Phytoplankton Populations,
W76-06757 9-13 5C

Integrated Systems of Mollusk Culture,
W76-10996 9-20 5C

Polyspecies Aquaculture Systems: The Detrital Trophic Level,
W76-06759 9-13 5C

Polyspecies Aquaculture Systems: The Detrital Trophic Level,
W76-10997 9-20 5C

TENPAS, G. H.
Properties of Solids and Liquids from Stacked Manure,
W76-07197 9-14 5A

Runoff Control Systems for Concrete Dairy Cattle Yards,
W76-01039 9-03 5B

TENU, A.
Environmental Isotopic Study of the Barremian-Jurassic Aquifer in South Dobrogea (Roumania),
W76-00894 9-02 2F

TEPLYKH, L. A.
Radioecological Concentration Processes in the Water-Fish Line,
W76-06895 9-14 5C

TERAI, H.
Studies on Phosphorylation Coupled with Denitrification and Aerobic Respiration in Pseudomonas Denitrificans,
W76-08823 9-17 5C

TERAO, T.
Oceanographic Structure of the Mutu Bay, (In Japanese),
W76-07946 9-15 2L

TERASAWA, K.
Development of the Deep Aeration Tank, (In Japanese),
W76-01437 9-03 5D

TEREGULOV, E. KH.
Laboratory Instruments and Apparatus for Investigating the Thermophysical Interaction of Water with a Frozen Peat Deposit,
W76-07080 9-14 2G

TERHAAR, C. J.
Silver in Photoprocessing Effluents,
W76-05732 9-12 5D

TERICH, T. A.
Bayocean Spit, Oregon: History of Development and Erosional Destruction,
W76-00004 9-01 2L

Oregon Coast Shoreline Changes Due to Jetties,
W76-08342 9-16 8B

TERMAN, G. L.
Accretion and Dilution of Nutrients in Young Corn, as Affected by Yield Response to Nitrogen, Phosphorus, and Potassium,
W76-00823 9-02 3C

Yield-Nutrient Absorption Relationships as Affected by Environmental Growth Factors,
W76-10184 9-19 2I

TERPENING, V. A.
Environmental Inventory and Assessment of Navigation Pools 24, 25, and 26 Upper Mississippi and Lower Illinois Rivers; Floodplain Animals and Their Habitats,
W76-11747 9-22 6G

TERRY, R. D.
Pollution Effects on Surface Waters and Ground Waters, (Literature Review),
W76-10104 9-19 5C

TERRY, R. E.
Factors Influencing Nitrate Transformations in Sediments,
W76-11700 9-22 5C

TERSKOV, I. A.
Possibility of Determining the Rate of Seasonal Radial Growth of Trunks and Changes in the Water Regime of Trees Using a Photometric Curve, (In Russian),
W76-08521 9-16 2I

TERSTRIEP, M. L.
ILLUDAS - The Illinois Urban Drainage Area Simulator,
W76-09735 9-18 2E

TESAKER, E.
Modelling of Suspension Currents,
W76-10449 9-19 5B

TESCHE, M.
The Effect of Water Stress on the Exudation of Carbohydrates by the Roots of Picea Abies (L.) Karst and Other Young Conifers, (In German),
W76-07299 9-14 2I

TETER, N. C.
Coordinated Livestock Production Systems,
W76-00465 9-01 5D

TETREAULT, A.
Sewage Pipe Fitting,
W76-08996 9-17 8G

TETT, P.
Phosphorus Quota and the Chlorophyll: Carbon Ratio in Marine Phytoplankton,
W76-05461 9-11 5C

TEVEBAUGH, F.
Arizona State Water Plan, Phase I: Inventory of Resource and Uses,
W76-00700 9-02 6B

TEW, R. W.
Distribution of Stream Pollution in Lake Water,
W76-10712 9-20 5B

TEWARI, P. H.
Characterization of Adsorbed Cobalt at the Oxide-Water Interface,
W76-10634 9-20 5D

TEZUKA, T.
Oil Fence Having Directional Control Device,
W76-07441 9-14 5G

THACKER, W. C.
A Solvable Model of 'Shear Dispersion',
W76-07067 9-14 2J

THACKSTON, E. L.
Effect of Geographical Variation on Performance of Recirculating Cooling Ponds,
W76-02501 9-06 5B

Effect of Meteorological Variables on Temperature Changes in Flowing Streams,
W76-12849 9-24 5C

THAKORE, A. N.
Acute Toxicity to Juvenile Rainbow Trout (Salmo Gairdneri) of Naturally Occurring Insect Juvenile Hormone Analogues,
W76-09282 9-17 5C

Isolation and Identification of Constituents Toxic to Juvenile Rainbow Trout (Salmo Gairdneri) in Caustic Extraction Effluents from Kraft Pulpmill Bleach Plants,
W76-02332 9-05 5A

Toxic Constituents in Pulp Mill Effluents,
W76-08458 9-16 5A

THAMES, J. L.
Decision Analysis for Watershed Management Alternatives,
W76-06905 9-14 4D

Rehabilitation of Land Disturbed by Surface Mining Coal in Arizona,
W76-00709 9-02 5G

Strip Mining and Reclamation on the Black Mesa of Arizona,
W76-02670 9-06 5G

THATCHER, M. L.
Application of a Dynamic Network Model to Hydraulic and Water Quality Studies of the St. Lawrence River,
W76-10440 9-19 5B

THATCHER, T. O.
Aquatic Physiology of Thermal and Chemical Discharges,
W76-08880 9-17 5C

Combined Effects of Mercury and Temperature on the Mortality of Rainbow Trout,
W76-02005 9-05 5C

Some Effects of Temperature, Chlorine and Copper on the Survival and Growth of the Coon Stripe Shrimp, Pandalus Danae,
W76-12722 9-24 5C

THAYER, G. W.
Biomass of Zooplankton in the Newport River Estuary and the Influence of Postlarval Fishes,
W76-06153 9-13 2L

THAYER, P. M.
Diffused Air in Deep Tank Aeration,
W76-10226 9-19 5D

Sewage Treatment Aeration Systems,
W76-09423 9-18 5D

THEILE, K.
Infiltration Model with Regard to the Surface Runoff (Ein Infiltrationsmodell Unter Beruecksichtigung des Landoberflaechenabflusses),
W76-01053 9-03 2A

THEILIG, G.
Re-Use and Disposal of Waste Acids,
W76-08721 9-16 5D

THEODORSSON, P.
The Acid-Bubbling Method for Primary Productivity Measurements Modified and Tested,
W76-06716 9-13 5A

THEON, J. S.
Meteorological Interpretations of the Images from the Nimbus 5 Electrically Scanned Microwave Radiometer,
W76-07071 9-14 2B

THERIAULT, K.
The Effect of Breaker Shape on Impact Pressures in Surf,
W76-01499 9-03 2L

THERRIAULT, J. C.
Penetration of the Deep Layer of the Saguenay Fjord by Surface Waters of the St. Lawrence Estuary,
W76-06674 9-13 2L

THEUS, H. P.
Intake Manifolds and Emptying Valves for Lower Monumental Lock, Snake River, Washington,
W76-08146 9-16 8C

THIBODEAUX, L.
A Fickian Analysis of Lake Sediment Upsurge,
W76-11692 9-22 2J

THIBODEAUX, L. J.
Semi-Infinite Solid Model for Prediction of Temperature in Deep Reservoirs and Lakes,
W76-03852 9-08 2H

THIELEMANN, H.
Identification and Determination of 1,4-Benzoquinone in Waste Water of the Coal Working Industry (Zur Identifiezierung Und Bestimmung Von 1,4-Benzochinon in Abwaesern Der Kohleverarbei- Tenden Industrie),
W76-04074 9-09 5A

THIRUVENGADAM, A. P.
Evaluation of Membrane Oil Pollution Prevention System Research,
W76-12388 9-23 5G

THODOS, G.
Fly Ash - A Potential Asset in Wastewater Treatment,
W76-11274 9-21 5D

THOM, N. S.
The Breakdown of Synthetic Organic Compounds in Biological Processes,
W76-05118 9-11 5D

THOMANN, R. V.
Cost Effectiveness of Regional Water Quality Management: Some Selected Case Studies and General Implications,
W76-07687 9-15 5G

A Food Chain Model of Cadmium in Western Lake Erie,
W76-03310 9-07 5B

Modeling of Phytoplankton in Lake Ontario,
W76-11286 9-21 5C

THOMAS, A. W.
Comparisons of Calculated and Measured Capillary Potentials from Line Sources,
W76-07768 9-15 2G

Computing Phreatic Groundwater Storage,
W76-06409 9-13 2A

A Model for Runoff of Pesticides from Small Upland Watersheds,
W76-08356 9-16 5B

Steady Infiltration From Line Sources Buried in Soil,
W76-01065 9-03 3B

THOMAS, C. C. JR.
Neutron Activation Analysis of Some of the Biologically Active Trace Elements in Fish,
W76-06753 9-13 5A

THOMAS, D.
Role of Synthetic Time Series in Hydrometeorological Data Analysis,
W76-00891 9-02 2A

THOMAS, D. A.
Studies on Leaf Characteristics of a Cline of Eucalyptus Urnigera from Mount Wellington Tasmania: I. Water Repellency and the Freezing of Leaves,
W76-07403 9-14 2I

THOMAS, D. E.
The Taking Issue, Flood Plain and Wetland Zoning,
W76-12049 9-22 6E

THOMAS, E. A.
The Effect of Bacterial Substances on the Growth of Two Cladophoraciae in Pure Culture, (In German),
W76-06779 9-13 5C

THOMAS, E. V.
The Removal of Inorganic Nitrogen from Sewage Effluents by Biological Denitrification,
W76-03347 9-07 5D

THOMAS, F. B.
Seafood Processing in Relation to Coastal Industrial Park Concepts,
W76-13101 9-24 6E

THOMAS, H. E.
Summary Appraisals of the Nation's Ground Water Resources--California Region,
W76-09139 9-17 4B

THOMAS, H. R.
Effect of Anaerobic Swine Lagoons on Groundwater Quality in High Water Table Soils,
W76-07190 9-14 5B

Pollutant Movement to Ground Water from Swine Waste Lagoons,
W76-03973 9-08 5B

OMAS, J.
iological Sampling of the Lagoonal Complex urrounding KSC (Kennedy Space Center),
/76-01894 9-04 2L

OMAS, J. F.
iodegradability and Toxicity Studies of Photo-raphic Processing Wastes at Offutt AFB, ebraska,
/76-10053 9-19 5C

hemical Treatment for Phosphate Control,
/76-03242 9-07 5D

ethod and Apparatus for the Destructive ecomposition of Organic Wastes Without Air ollution and With Recovery of Chemical yproducts,
/76-08459 9-16 5D

OMAS, J. F. J.
ndustrial Water Resources of Canada; Hudson ay, Labrador and Arctic Drainage Basins, 59-1965,
/76-04163 9-09 3E

OMAS, J. H.
teady Wind-Driven Currents in a Large Lake ith Depth-Dependent Eddy Viscosity,
/76-06930 9-14 2H

OMAS, J. L.
ctivated Sludge-Bio-Disc Treatment of Distil-ry Wastes,
/76-04750 9-10 5D

OMAS, J. R.
redicting Nitrogen Fertilizer Requirements fter Land Leveling,
/76-00155 9-01 3F

OMAS, K. L.
he Winooski Workshops: An Assessment of pecified Workshop Techniques for Stimulat-ng and Improving Public Involvement in Water esources,
/76-12151 9-23 6B

OMAS, N. O.
nnual Maximum Stages and Discharges of orth Carolina Streams,
/76-05423 9-11 7C

OMAS, R. D.
ater Problems in the Context of County overnment Decision-Making,
/76-04511 9-10 6B

OMAS, R. E.
and Application Research at Robert S. Kerr nvironmental Research Laboratory,
/76-11232 9-21 5D

pgrading Lagoon Treatment with Land Appli-ation,
/76-07054 9-14 5D

OMAS, R. G.
ffects of Water Stress Under Contrasting En-ironmental Conditions on Transpiration and hotosynthesis in Soybean,
/76-11362 9-21 3F

ranspiration and Photosynthesis in Soybean: ffects of Temperature and Vapour Pressure eficit,
/76-11407 9-21 3F

OMAS, R. H.
hickening of the Ross Ice Shelf and Equilibri-m State of the West Antarctic Ice Sheet,
/76-11852 9-22 2C

THOMAS, R. L.
Cultural Impact on the Geochemistry of Sediments in Lake Erie,
W76-08727 9-16 2J

Forms of Phosphorus in the Surficial Sediments of Lake Erie,
W76-08527 9-16 5B

Mercury in the Surficial Sediments of Lake Erie,
W76-08526 9-16 5B

Surficial Sediments of Lake Erie,
W76-08725 9-16 2J

THOMAS, W. A.
Biological Indicators of Environmental Quality. A Bibliography of Abstracts,
W76-09860 9-18 5A

Cerium and Cobalt Movement with Litter Leachate in a Forest Soil,
W76-10311 9-19 5B

THOMAS, W. H.
Effects of Copper on Natural Marine Phytoplankton Communities,
W76-08947 9-17 5C

The Replication of Biological Events in Enclosed Water Columns,
W76-08948 9-17 5C

The Replication of Biological Events in Enclosed Water Columns,
W76-09226 9-17 5C

THOMAS, W. O. JR.
Techniques for Estimating Flood Depths for Oklahoma Streams,
W76-11075 9-20 4A

THOMASON, B. M.
Detection of Salmonellae in the Environment,
W76-05100 9-11 5A

THOMMES, M. M.
Body Temperature Change Characteristics of Lake Michigan Fishes,
W76-05899 9-12 5C

Body-Temperature Characteristics of Fish at a Thermal Discharge on Lake Michigan,
W76-03469 9-07 5C

Body Temperatures of Fish Feeding in The Point Beach Thermal Discharge,
W76-05900 9-12 5C

Comparison of the Movement and Recapture of Salmonid Fishes Tagged at Two Power Plants,
W76-05894 9-12 5C

Fish Behavior at a Thermal Discharge into Lake Michigan,
W76-02012 9-05 5C

Migratory Behavior of Fish Tagged at a Nuclear Power Plant Discharge Into Lake Michigan,
W76-11281 9-21 2H

Origin of Fin-Clipped Salmonids Collected at Two Thermal Discharges on Lake Michigan,
W76-05895 9-12 5C

THOMPSON, C. A.
Fertilizing Dryland Grain Sorghum on Upland Soils the 20- to 26- Inch Rainfall Area in Kansas,
W76-11516 9-21 3F

THOMPSON, E. F.
Results from the CERC Wave Measurement Program,
W76-02400 9-05 2L

THOMPSON, F. C.
Tolerance and Synthetic Ability of Sewage Microorganisms in Acid Mine Water,
W76-04725 9-10 5C

THOMPSON, G. E.
Recent Developments in Sewage Treatment and Equipment,
W76-12662 9-23 5D

THOMPSON, G. H.
Evaluation of Mineralization Processes for SRP Wastes,
W76-08595 9-16 5G

Interim Solidification of SRP Waste with Silica, Bentonite, or Phosphoric Acid,
W76-12690 9-24 5D

THOMPSON, G. S. JR.
Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Bauxite Refining Subcategary of the Aluminum segment of the Non-Ferrous Metals Manufacturing Point Source Category,
W76-01201 9-03 5G

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Secondary Aluminum Smelting Subcategory of the Aluminum Segment of the Nonferrous Metals Manufacturing Point Source Category,
W76-01231 9-03 5G

THOMPSON, G. T.
A Theory of Flow Resistance for Vegetated Channels,
W76-09252 9-17 4A

THOMPSON, J. A. J.
Application of the Stainton Syringe Method to the Analysis of Mercury in Natural Waters,
W76-03313 9-07 5A

Application of the Stainton Syringe Method to the Analysis of Mercury in Natural Waters,
W76-08025 9-15 5A

THOMPSON, J. C.
Old Slow Sand + New Rapid Filtration - Sedimentation = Savings,
W76-05808 9-12 5F

THOMPSON, J. D.
A Suction Sampler for Quantitatively Sampling Benthos on Rocky Substrates in Rivers,
W76-01905 9-04 7B

THOMPSON, J. E.
Chlorination of Organics in Cooling Waters and Process Effluents,
W76-12882 9-24 5A

THOMPSON, J. R.
Energy Budgets for Three Small Plots--Substantiation of Priestley and Taylor's Large-Scale Evaporation Parameter,
W76-01474 9-03 2D

Hydrology of Black Mesa Watersheds, Western Colorado,
W76-01233 9-03 4D

Large Scale Effects of Cloud Seeding,
W76-06562 9-13 3B

THOMPSON, J. R.

Snowmelt Runoff Efficiencies on Arizona Watersheds,
W76-02866 9-06 2C

Snowmelt Runoff Efficiencies on Arizona Watersheds,
W76-03581 9-08 3B

Windbreaks May Increase Water Yield from the Grassland Islands in Arizona's Mixed Conifer Forests,
W76-12477 9-23 3B

THOMPSON, K. C.
Improvements in the Atomic-Fluorescence Determination of Mercury by the Cold-Vapour Technique,
W76-02882 9-06 5A

THOMPSON, L. G.
Climatological Implications of Microparticle Concentrations in the Ice Core from 'Byrd' Station, Western Antarctica,
W76-07551 9-15 2C

THOMPSON, M.
A Study of Research and Development in Environmental Engineering Using System Approach,
W76-12533 9-23 6B

THOMPSON, N. P.
Chlorinated Hydrocarbons in Mesopelagic Fishes of the Eastern Gulf of Mexico,
W76-08434 9-16 5C

THOMPSON, R.
Magnetic Susceptibility of Lake Sediments,
W76-03311 9-07 2J

THOMPSON, R. G.
An Economic Model of Water Use and Waste Treatment,
W76-05814 9-12 5D

An Integrated Power Process Model of Water Use and Waste Water Treatment in Chlor-Alkali Production,
W76-00707 9-02 5D

An Integrated Power Process Model of Water Use and Wastewater Treatment in Ammonia Production,
W76-01234 9-03 5D

An Integrated Power Process Model of Water Use and Wastewater Treatment in Chlorine Caustic Production,
W76-10621 9-20 5D

Water-Pollution Instrumentation,
W76-12653 9-23 5A

Water Use Policies and Power Plant Economics,
W76-09776 9-18 5G

What Does a 'Clean' Environment Cost,
W76-08150 9-16 5G

THOMPSON, T. W.
The Facts of Life,
W76-02651 9-06 6B

THOMPSON, W. C.
Flood of June 1972 in the Southern Peace (Smoky River) Basin, Alberta,
W76-01316 9-03 2E

THOMSEN, P. G.
Some Aspects of Modelling the Long-Term Behaviour of Aquatic Ecosystems,
W76-11883 9-22 5B

THOMSEN, R. M.
Economic Effects of Agricultural Land-Use Management on Soil Erosion and Farm Income in the Obion-Forked Deer River Basin,
W76-10612 9-20 4A

THOMSOM, S. V.
Occurrence of Phytophthora Species and Other Potential Plant Pathogens in Recycled Irrigation Water,
W76-06010 9-12 5C

THOMSON, C. A.
Comparative Survival of Indicator Bacteria and Enteric Pathogens in Well Water,
W76-12194 9-23 5A

THOMSON, D. A.
Resilience of a Rocky Intertidal Fish Community in a Physically Unstable Environment,
W76-09126 9-17 5C

THOMSON, F.
Basic Remote Sensing Investigations for Beach Reconnaissance: An Interim Report,
W76-12375 9-23 2L

THOMSON, F. J.
Basic Investigations for Remote Sensing of Coastal Areas,
W76-01842 9-04 7B

Basic Investigations for Remote Sensing of Coastal Areas,
W76-13182 9-24 2L

Basic Investigations for Remote Sensing of Coastal Areas,
W76-13183 9-24 2L

THOMSON, J. A.
Interaction of Small-Amplitude Surface Gravity Waves with Surface Currents,
W76-03737 9-08 2L

THOMSON, K. P. B.
In Situ Colour Measurements on the Great Lakes,
W76-00885 9-02 5A

Optical Properties of the Great Lakes,
W76-11440 9-21 2H

Transmissometer Measurements of the Great Lakes,
W76-06370 9-13 7B

THOMSON, M. G. D.
Design of Long Interceptor Sewers,
W76-01047 9-03 5D

THOMSON, S. J.
How to Design Activated Sludge Units,
W76-00254 9-01 5D

THON, J. G.
Problems of Public Works Projects in the Present Economic Climate,
W76-10980 9-20 6C

THORDARSON, W.
Hydrogeologic and Hydrochemical Framework, South-Central Great Basin, Nevada-California, with Special Reference to the Nevada Test Site,
W76-02140 9-05 5B

Radiochemical Monitoring of Water After the Cannikin Event, Amchitka Island, Alaska, August 1974, and Chemical Monitoring from July 1972 to June 1974,
W76-07607 9-15 5A

Radiochemical Monitoring of Water After th
Cannikin Event, Amchitka Island, Alaska, Ma
1974,
W76-07606 9-15 5

THORESON, C. W.
Management of Irrigation for Disposal
Feedlot Runoff in Cold Climates,
W76-07194 9-14 5

THORHAUG, A.
Effect of Thermal Effluents on the Mari
Biology of Southeastern Florida,
W76-02023 9-05 5

THORMANN, A.
Preparation of Polyester Jacketed Soil Colum
as Penetration, Suction Plate and Groundwat
Lysimeters, (In German),
W76-07272 9-14 2

THORNDIKE, A. S.
The Thickness Distribution of Sea Ice,
W76-04696 9-10 2

THORNTON, E. B.
Comparison of Hydraulic and Numerical Tid
Models,
W76-10446 9-19 2

THORNTON, I.
Effect of Zinc on the Settlement of the Oyst
Crassostrea Gigas,
W76-00866 9-02 5

Stream Sediment Composition: An Aid
Water Quality Assessment,
W76-11367 9-21 5

THORP, V. J.
Pollution of a Tasmanian River by Mine E
fluents: II. Distribution of Macroinvertebrates
W76-07705 9-15 5

Toxicity Bioassays of Cadmium on Selecte
Freshwater Invertebrates and the Interaction
Cadmium and Zinc on the Freshwater Shrim
Paratya Tasmaniensis Riek,
W76-07700 9-15 5

THORSLUND, T. W.
Mercury Residues in Fathead Minnow
Pimephales Promelas Rafinesque, Chronicall
Exposed to Methyl-Mercury in Water,
W76-00875 9-02 5

Toxicity of a Linear Alkylate Sulfonate Dete
gent to Larvae of Four Species of Freshwat
Fish,
W76-00337 9-01 5

THORUD, D. B.
Antitranspirants as a Possible Alternative to th
Eradication of Saltcedar Thickets,
W76-04929 9-10 3

Characterization of Snowmelt Runoff Efficie
cies,
W76-02871 9-06 2

Predicting Spring Streamflow In Centr
Arizona,
W76-02724 9-06 4

Vegetation Management for Water and Ran
Improvement,
W76-06598 9-13 3

Water Yield Improvement by Vegetatio
Management: Focus on Arizona,
W76-08539 9-16 3

HRAENHART, O.
Comparative Studies on the Action of Chlorine and Ozone on Polio-Viruses in the Reprocessing of Drinking Water in Essen (Vergleichende Untersuchungen Ueber die Wirkung von Chlor und Ozon auf Polioviren bei der Trinkwasseraufbereitung der Stadt Essen),
W76-03345 9-07 5F

HRAN, D. F.
Bonding Mechanisms for Soil Crusts: Part II. Strength of Silica Cementation,
W76-00521 9-02 2G

HRESHER, R. W.
Anchor-Last Deployment Simulation by Lumped Masses,
W76-07559 9-15 2L

HUMMLER, U.
Process and Apparatus for Continuous Workup of Phosphorus-Containing Residues,
W76-04055 9-09 5D

HURBERG, F. P.
Field Studies on Ozone Inactivation of a Gymnodinium Breve Toxin,
W76-07099 9-14 5G

HURLOW, C. I.
Tidal Datums and Mapping Tidal Boundaries,
W76-03625 9-08 6E

HURNER, K.
The Microflora of Aerobic Bacteria in Gravel Pit Lakes, (In German),
W76-06777 9-13 5C

HUROW, C.
Local Land Use Control Over Critical Areas,
W76-01790 9-04 6E

Performance Controls for Sensitive Lands: A Practical Guide for Local Administrators,
W76-01871 9-04 6F

HURSTON, R. V.
Upper Yellowstone River Water Quality: August 1973 - August 1974,
W76-02638 9-06 5B

HURTELL, G. W.
Effects of Water Stress on Leaf Respiration, Transpiration Rates in the Dark and Cuticular Resistance to Water Vapor Diffusion of Two Corn Inbreds,
W76-06266 9-13 2D

IARKS, A. E.
Detachment of Soil Aggregates by Simulated Rainfall From Heavily Manured Soils in Eastern Nebraska,
W76-03730 9-08 2J

IBBALS, C. H.
Aquifer Tests in the Summit Reach of the Proposed Cross-Florida Barge Canal Near Ocala, Florida,
W76-07599 9-15 2F

IBBLES, J. J.
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W76-07250 9-14 8I

IBBS, J.
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W76-04231 9-09 5C

TIBBS, J. F.
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W76-04235 9-09 5C

TIDWELL, H.
Wave Motor,
W76-04601 9-10 8C

TIEFENBRUNNER, F.
Biological Problems of a Manmade Small Lake, (In German),
W76-08107 9-16 5C

TIEN, C.
An Approximate Analysis of Melting and Freezing of a Drill Hole Through an Ice Shelf in Antarctica,
W76-07550 9-15 2C

TIERNEY, J. T.
Persistence of Virus on Sewage-Irrigated Vegetables,
W76-12634 9-23 5B

TIETJEN, S. H.
Growth of Salt Marsh Microcosms Subjected to Thermal Stress,
W76-02016 9-05 5C

TIEWUL, S. A.
International Law and Nuclear Test Explosions on the High Seas,
W76-04350 9-09 6E

TIFFANY, P.
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W76-00888 9-02 7C

TIFFT, E. C. JR.
Bench-Scale High-Rate Disinfection of Combined Sewer Overflows; With Chlorine and Chlorine Dioxide,
W76-00371 9-01 5D

TIHANSKY, D.
A Survey of Empirical Benefit Studies,
W76-11157 9-21 6B

TIKHANOVSKIY, P. A.
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W76-09875 9-18 5D

TIKHE, M. L.
Optimal Design of Chlorination Systems,
W76-13163 9-24 5F

TIKHONOV, I. F.
Settling Tank,
W76-08495 9-16 5D

TIKHONOVA, A. I.
Some Data on Comparative Evaluation of Radioactive and Chemical Pollution Factors in Freshwater Reservoirs,
W76-06886 9-14 5B

TILLMAN, D.
Ecology, Economy and Mining in Vermont,
W76-03061 9-07 5G

TILLMAN, D. C.
Clean Air Equals Dirty Water,
W76-07228 9-14 5G

TILLMAN, D. L.
The Effect of the Goshen Bay Dike on the Benthos of Utah Lake in Relation to Water Quality,
W76-04013 9-09 5C

The Reproductive Biology of the Leech Helobdella Stagnalis (L.) in Utah Lake, Utah,
W76-11826 9-22 2H

TILLY, L. J.
Changes in Water Chemistry and Primary Productivity of a Reactor Cooling Reservoir (Par Pond),
W76-10290 9-19 5C

Clam Survival in Chlorinated Water,
W76-07481 9-15 5G

Periphyton Crops and Productivity in a Reactor Thermal Effluent,
W76-12762 9-24 5C

Respiration and Net Productivity of the Plankton Community in a Reactor Cooling Reservoir,
W76-02020 9-05 5C

TIMKO, E.
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W76-09900 9-18 5A

Determining the Concentration of Oil in Water Samples by Infrared Spectrophotometry. Phase II. Interlaboratory Study. Volume III,
W76-09901 9-18 5A

TIMMONS, F. L.
Herbicides as Antipollutants,
W76-11150 9-21 5G

TIMOFEEVA, S. S.
Effect of Phenols and their Oxidation Products on Aquatic Plants and Content of Sulfhydryl Groups in Them, (In Russian),
W76-05276 9-11 5C

TIMOSHCHUK, V. I.
Sr90 in the Water-Atmosphere Interface,
W76-06888 9-14 5B

TIMPERLEY, M. H.
The Formation and Detection of Metal Dispersion Halos in Organic Lake Sediments,
W76-09129 9-17 2J

TINCHER, E. C.
Cost of Water Pollution Control in the Carpet Industry,
W76-12422 9-23 5G

TINGSANCHALI, T.
Effects of Overbank Flow in Flood Computations,
W76-12976 9-24 2E

TININA, G. A.
Soil Cover of the Sherabad Steppe, (In Russian),
W76-07964 9-15 2G

TINSMAN, J. C.
Effects of a Thermal Effluent on the American Oyster,
W76-02009 9-05 5C

TIPPENS, C. L.
Geothermal Investigations in Idaho: Part 2. An Evaluation of Thermal Water in the Bruneau-Grand View Area, Southwest Idaho,
W76-02655 9-06 4B

TIPPER, R. C.
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W76-09304 9-17 5G

TIRRELL, C. E.
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W76-08471 9-16 5D

TISCHER, W.
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W76-01436 9-03 5D

TITTLE, C. P.
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W76-12043 9-22 6E

TKACH, V. I.
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W76-04071 9-09 5D

TKACHENKO, V. N.
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W76-07313 9-14 5C

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W76-09096 9-17 4C

TKACHUK, K. S.
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W76-09809 9-18 2D

TKACHUK, V. P.
Control of Coagulant Recovery from Effluent Sediment (Kontrol' regeneratsii koagulyantov iz osadka ctochnykh vod),
W76-05725 9-12 5E

TOAKLEY, A. R.
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W76-07232 9-14 6A

TOBIAS, W.
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W76-05057 9-11 5B

TOBIESSEN, P.
Drought-Stress Avoidance in Three Pioneer Tree Species,
W76-00872 9-02 2I

TOBIN, S. E.
Study on the Efficiency of Four Procedures for Enumerating Coliforms in Water,
W76-12897 9-24 5A

TOCHKO, J.
The Effect of Breaker Shape on Impact Pressures in Surf,
W76-01499 9-03 2L

TODA, I.
Dehydration of Urban Sewage Sludge by Freezing (Toshi gensui odei no toketsu dassui shori),
W76-00765 9-02 5D

TODD, D. K.
Application of the Stanford Watershed Model to Nigerian Watersheds,
W76-10923 9-20 2A

Development of a Methodology for Monitoring Groundwater Quality,
W76-10658 9-20 5A

TODD, R. L.
A Preliminary Compartment Model of the Nitrogen Cycle in a Deciduous Forest Ecosystem,
W76-10269 9-19 5B

Significance of Biological Nitrogen Fixation and Denitrification in a Deciduous Forest Ecosystem,
W76-10320 9-19 5B

TODD, W. J.
Evaluation of Surface Water Resources from Machine-Processing of ERTS Multispectral Data,
W76-00833 9-02 5G

TODINI, E.
Comment Upon Multivariate Synthetic Hydrology,
W76-05909 9-12 2A

Statistics of Data Transfer,
W76-09133 9-17 4A

TODISCO, A.
Wastewater Reuse by Continuous Ion Exchange,
W76-07239 9-14 5D

TODOROVIC, P.
Evaluation of Stochastic Models Describing Movement of Sediment Particles on Riverbeds,
W76-02959 9-06 2J

A Stochastic Model of Dispersion of Sediment Particles Released from A Continuous Source,
W76-05663 9-12 2J

TOEBES, G. H.
Wabash River Systems Model - Terminal Report Phase I,
W76-12220 9-23 4A

TOEI, K.
Nitrosophenol and Nitrosonaphthol Derivatives as Reagents for Spectrophotometric Determination of Iron and Determination of Micro-Amounts in Waters with 2-Nitroso-5-Dimethylaminophenol,
W76-06303 9-13 5A

TOETZ, D. W.
Biological and Water Quality Effects of Artificial Destratification of Lake of the Arbuckles,
W76-04385 9-09 5C

Uptake and Translocation of Ammonia by Freshwater Hydrophytes,
W76-01161 9-03 2I

TOFAUTE, K.
Method and Apparatus for Chemically Purif ing Sewage,
W76-08976 9-17 5

TOFFLEMIRE, J.
Water Renovation Using Deep Natural Sa Beds,
W76-01765 9-04 5

TOFFLEMIRE, T. J.
Land Application of Wastewater, (Literatu Review),
W76-12676 9-24 5

TOHILL, J. B.
Diffused Surface Waters in Mississippi,
W76-06823 9-14 (

TOHYAMA, I.
Study on Waste Water Treatment with Calciu Silicates (I) on the Removal of CD(-), PB(CR(-) Salts, (In Japanese),
W76-03065 9-07 5

TOI, J.
On Environmental Factors of Eel Pools: Chemistry of the Water and Soil and Plankt in October 1965 and July 1966, (In Japanese),
W76-12275 9-23 5

TOKAR, J. V.
A Comparison of Aerial Infra-Red and In-Si Thermal Plume Measurement Techniques,
W76-08860 9-17 5

A Comparison of Aerial Infrared and Bo Oriented Thermal Plume Measureme Techniques,
W76-12773 9-24 5

Comparison of Thermal Scanning and In Si Techniques for Monitoring Therm Discharges,
W76-05156 9-11 5

Measurements of Physical Phenomena Relat to Power Plant Waste Heat Discharges: La Michigan, 1973 and 1974,
W76-12770 9-24 5

TOKARNIA, C. H.
Phosphorus Deficiency in Cattle from t Brasilia Region of Brazil, (In Portugese),
W76-12322 9-23 5

TOKUTSU, S.
Interaction Between Surfactant and Dye I Application of the Acridine Orange Method the Survey of Pollution of Alkylbenzene Su fonate in Rivers and the Survey of Water Poll tion in Kinokawa,
W76-09364 9-17 5

TOLKACHEV, A.
Pilot Project on Marine Pollution Monitori Under the Framework of Igoss,
W76-10373 9-19 5

TOLLISON, R. D.
Oil Tanker Pollution Control: Design Criter vs Effective Liability Assessment,
W76-07812 9-15 5

TOLSON, J. S.
Hydrology of Limestone Terranes, Progress Knowledge About Hydrology of Carbona Terranes,
W76-12813 9-24 2

LSTED, D. N.
Snowmelt Runoff from Planted Conifers in Southwestern Wisconsin,
W76-11369 9-21 4A

M, M. D.
Hawaiian Beach Access: A Customary Right,
W76-01401 9-03 6E

MA, G. S.
A Proposal for Future Utilization of Tharthar Lake Water,
W76-06577 9-13 3C

MAS, M. A.
Joint Biological Purification of Domestic and Industrial Waste Waters (Sovmestnaya biologicheskaya ochistka khozyaystvennobytovkh i proizvodstvennykh stochnykh vod),
W76-07515 9-15 5D

MCZAK, M. JR.
A Numerical Model of the Circulation in Cienfuegos Bay, Cuba,
W76-03374 9-07 2L

ME, C.
Nearshore Currents at Point Beach, Wisconsin (1974-1975),
W76-12758 9-24 7B

Thermal Plume Mapping,
W76-12771 9-24 5B

MESCU, B.
Bacterial Contents of Sewage from Large Hog Farms in Romania, (In France),
W76-02401 9-05 5A

MIKAWA, M.
Oil Adsorbent,
W76-12409 9-23 5G

MITA, A.
Measurement Method for Dissolved Ammonia Nitrogen in Water (Yozon anmoniasei chisso nodo sokuteiho),
W76-08261 9-16 5A

MITA, T.
Quality Control in Sewage Treatment Plant (Gesuishorijo no shishutsu seigyo),
W76-09205 9-17 5D

MLINSON, L. M.
The Alternating Direction Explicit Method for Analyzing Groundwater Flow,
W76-04691 9-10 2F

OMS, I. P.
Observations on the Performance of Polishing Lagoons at a Large Regional Works,
W76-00268 9-01 5D

ONELLI, F. A.
General Considerations in Wastewater Disinfection,
W76-10220 9-19 5D

ONER, W.
Performance Controls for Sensitive Lands: A Practical Guide for Local Administrators,
W76-01871 9-04 6F

ONES, P. I.
Osmoregulation in Trichocorixa Verticalis Interiores Sailer (Hemiptera, Corixidae) - An Inhabitant of Saskatchewan Saline Lakes, Canada,
W76-12733 9-24 5C

TONEVA, M.
Foam Formation in Plants for Biological Purification of Effluents from the Manufacture of Kraft Pulp (Penoobrazuvaneto v stantsiite za biologichno prechistvane naotpad' chite vodi ot proizvodstvoto na sulfatnatseluloza),
W76-10833 9-20 5D

TONG, A.
An Investigation into the Pretreatment and Effect of an Industrial Waste Water Derived from the Manufacture of Azo Dyes upon the Activated-Sludge Process,
W76-07516 9-15 5D

TONKYN, R. G.
Water-Soluble Cationic Polymeric Materials and their Use,
W76-10964 9-20 5D

TONN, R. J.
Breeding Places and Seasonal Incidence of Aedes Aegypti, as Assessed by the Single-Larva Survey Method,
W76-06033 9-12 5G

TONOMURA, M.
Hygienic Chemical Studies on Water Quality of the Moat of Imperial Palace: I. Relationship Between Seasonal Water Quality and Microflora in the Moat. (In Japanese),
W76-07426 9-14 5C

Hygienic Chemical Studies on Water Quality of the Moat of Imperial Palace: II. Relationship Between Water Quality and Horizontal Insolation Intensity, (In Japanese),
W76-07427 9-14 5C

TOOENHEYM, J. H.
Process for Removing Heavy Metals from Solutions,
W76-05496 9-11 5D

TOOL, A. R.
Chesapeake Bay Radioactive Tracer Study,
W76-07460 9-15 5B

TOOLE, T. W.
The Effect of the Goshen Bay Dike on the Benthos of Utah Lake in Relation to Water Quality,
W76-04013 9-09 5C

TOOMA, S. G.
Comparison of Sea-Ice Type Identification Between Airborne Dual-Frequency Passive Microwave Radiometry and Standard Laser/Infrared Technique,
W76-05388 9-11 7B

TOOR, H. S.
Toxicity of Insecticides (Commercial Formulations) to the Exotic Fish, Common Carp Cyprinus Carpio Communis Linnaeus,
W76-07699 9-15 5C

TOOTILL, S.
The Movement of Melting Ice over Rough Surfaces,
W76-05671 9-12 2C

TOPOLOV, A. A.
Seasonal and Interannual Changes in the Number of Bacteria in the Ivan-Arakhlei Lakes (Transbaikalia), (In Russian),
W76-04573 9-10 5C

TOPPING, M. S.
Effect of Environmental Factors on Standing Crop of Plankton in British Columbia Lakes,
W76-05741 9-12 5C

TORIKAI, E.
Studies on Electrolytic Treatment of Waste Water (I): Regeneration of Photographic Bleach Solution, (In Japanese),
W76-01662 9-04 5D

TORMA, L.
Analysis of Feed Grains and Forages for Traces of Cobalt by Flameless Atomic Absorption Spectroscopy,
W76-03410 9-07 5A

TORNABENE, M. G.
Wave-Action Power Apparatus,
W76-05549 9-12 8C

TORNATORE, G.
Monitoring Estuarine Circulation and Ocean Waste Dispersion Using an Integrated Satellite-Aircraft-Drogue Approach,
W76-10671 9-20 5A

TORNO, H. G.
The United States Environmental Protection Agency's Storm Water Management Model,
W76-12549 9-23 5G

TORPEY, W. N.
Method for the Primary and Secondary Treatment of Wastewater in a Unitary Apparatus,
W76-05972 9-12 5D

Method of Wastewater Treatment,
W76-01138 9-03 5D

Wastewater Treatment,
W76-02606 9-06 5D

Wastewater Treatment,
W76-05579 9-12 5D

TORREY, M. S.
Environmental Status of the Lake Michigan Region, Volume 3. Chemistry of Lake Michigan,
W76-12695 9-24 5C

Green Bay Self-Purifies Algal Nutrients,
W76-00615 9-02 5C

TOTH, A.
How Many Wastewater Treatment Plants are Necessary in Regional Sewer Systems. (Hany szennyviztisztito telep legyen a regionalis caatornaerndszeben).
W76-01429 9-03 5D

TOTH, D. J.
Stratified Lake and Oceanic Brines: Salt Movement and Time Limits of Existence,
W76-02696 9-06 5B

TOTH, E.
Methods for Computing the Evaporation of Lake Fertoe, (In German),
W76-11741 9-22 2D

TOULOVA, M.
Biomass -- A Product of Biological Purification of Pulping Effluents as Feed for Poultry (Biomasa -- produkt biologickeho cisteni odpadnich vod po vyrobe celulozy -- jako krmivo pro drubez),
W76-02515 9-06 5E

TOWER, R. H.
Water Testing Device,
W76-02250 9-05 5A

TOWLERTON, A. L.
Leaching of Pollutants from Wood-Chip Slurry,
W76-04075 9-09 5D

TOWNER, G. D.
A Hele-Shaw Analog Study of the Seepage of Groundwater Resting on a Sloping Bed,
W76-00025 9-01 2F

TOWNSEND, A. M.
Effect of Moisture Stress on Red Maple Seedlings from Different Seed Sources,
W76-01196 9-03 2D

TOWNSEND, F. C.
Effects of Anisotropic Versus Isotropic Consolidation in Consolidated-Undrained Triaxial Compression Tests of Cohesive Soils,
W76-07327 9-14 8G

TOWNSEND, L. R.
Brake Means for an Air-Powered Sprinkler System,
W76-10956 9-20 3F

TOWNSEND, S. A.
Land and Sea Solids Management Alternatives in Philadelphia,
W76-07033 9-14 5E

TOWNSHEND, A. R.
'Cabos' - New Wastewater Treatment System for Vessels,
W76-07685 9-15 5D

TOYA, Y.
A New Sewage Treatment Technique for the Purpose of Nitrogen Elimination (I): Biological Denitrogenization of Urban Sewage (Chisso jokyo o mokuteki to shite atarashii gesui shori gijutsu (I),--Toshi gesui kara no seibutsugakuteki datsu chissoho ni tsuite),
W76-08274 9-16 5D

TRAAEN, T. S.
Biological Effects of Primary, Secondary, and Tertiary Sewage Treatment in Lotic Analog Recipients,
W76-08792 9-17 5C

TRACEY, R. J.
Storm Tide Frequency Analysis for the Coast of North Carolina, North of Cape Lookout,
W76-03181 9-07 2B

TRACHSEL, A.
Technical-Economic Product Design as Typified by a Sewage Pumping Installation,
W76-05591 9-12 5D

TRACY, C. R.
Modeling the Effects of Temperature Changes on the Ecology of the Garter Snake and Leopard Frog,
W76-03495 9-07 5C

TRACY, J. V.
Evaluation of Ground-Water Contamination from Cleaning Explosive-Projectile Casings at the Bangor Annex, Kitsap County, Washington, Phase II,
W76-08048 9-15 5B

TRAGESSER, A.
Expansive and Shrinkage Characteristics of Cements Under Actual Well Conditions,
W76-00390 9-01 8F

TRAIN, R. E.
A New Approach to International Environmental Cooperation; The NATO Committee on the Challenges of Modern Society,
W76-03594 9-08 5G

The U. S. Environmental Protection Agency: Past and Future Challenges,
W76-11658 9-22 5D

TRAIN, R. F.
Environmental Protection Agency: Policies and Procedures for State Continuing Planning Process,
W76-10762 9-20 5G

Fertilizer Manufacturing Point Source Category, Effluent Limitations and Guidelines for Existing Sources and Standards for New Sources for the Phosphate Subcategory,
W76-10768 9-20 5G

Marine Sanitation Device Standard,
W76-10758 9-20 5D

Organic Chemicals Manufacturing Point Source Category, Ethylene Oxide, Ethylene Glycol, Methyl Amines and Oxo Chemicals Processes,
W76-10769 9-20 5G

Timber Products Processing Point Source Category,
W76-10761 9-20 5G

Timber Products Processing Point Source Category, Proposed Pretreatment Standards for Existing Sources,
W76-10760 9-20 5G

TRAINA, P. J.
Status of the NPDES (National Pollutant Discharge Elimination System) in the Southeast,
W76-11371 9-21 5G

TRAINER, F. W.
Chemical Quality of Ground Water in the Northern Part of the Albuquerque-Belen Basin, Bernalillo and Sandoval Counties, New Mexico,
W76-03394 9-07 5B

Mixing of Thermal and Nonthermal Waters in the Margin of the Rio Grande Rift, Jemez Mountains, New Mexico,
W76-03393 9-07 2K

TRAINOR, F. R.
Biotic Changes in the Willimantic/Shetucket River Associated with Improvements in Sewage Treatment,
W76-04388 9-09 5C

Is a Reduced Level of Nitrogen Essential for Chlamydomonas Eugametos Mating in Nature,
W76-04584 9-10 5C

TRAKHTENBERG, B. K.
Hydraulic Computation of a Pool Hollow,
W76-05931 9-12 2E

TRAKHTENBERG, I. M.
Problem of Mercurialism in Connection with Mercury Pollution of the Environment, (In Russian),
W76-03796 9-08 5B

TRAMA, F. B.
Oxidation of Lake and Impoundment Hypolimnia,
W76-04016 9-09 5C

TRAMBOUZE, P.
Used Oils as Sources of Raw Materials and of Energy (les huiles usagees source de Matieres Premieres et d'energie),
W76-00498 9-01 5D

TRAPP, H. JR.
Geology and Ground-Water Resources of Hettinger and Stark Counties, North Dakota,
W76-08043 9-15 4B

TRATNIK, M.
Is the Examination of Drinkable Water a Swimming Pools on Presence of E teropathogenic E. Coli Necessary, (In G man),
W76-09785 9-18

TRATZ, R. F.
An Analysis of Water Resource Benefit Det mination Methods with Special Reference the Cosumnes River Division Project,
W76-05441 9-11

TRAU, J.
Analysis of Pulp and Paper Mill Waste Wat by High-Resolution Ion-Exchange Chromato raphy,
W76-05709 9-12

TRAUS, W.
Distribution Functions Limited at the Orig (Im Ursprung Begrenzte Verteilungsfun tionen),
W76-06316 9-13

TRAUTMAN, M. B.
Re-Evaluation of the Effects of Man-Ma Modifications on Gordon Creek Between 18 and 1973 and Especially as Regards its Fi Fauna,
W76-09407 9-18

TRAVER, S. H.
Energy Development: The Environment Tradeoffs. Volume 3: Relative Environment Ranking of Proposed Offshore Continent Shelf Areas on the Basis of Impacts of O Spills,
W76-13039 9-24

TRAVIS, T. A.
Soil Water Nitrate Beneath a Broad-Basin Te raced Feedlot,
W76-03981 9-08

TRAXLER, R. W.
Petroleum Degradation in Low Temperatu Marine and Estuarine Environments,
W76-11924 9-22

TREANOR, A. I.
Removal of Organic Matter by Floc Colloid onto Sludge Particles,
W76-07034 9-14

TREGLOWN, E. J.
Removal of Trace Levels of 2 Acetylaminofluorene (2-AAF) from Waste water,
W76-05117 9-11

TREIBER, B.
Comparison of Required Reservoir Storage Computed by the Thomas-Fiering Model an the 'Karlsruhe Model' Type A and B,
W76-12832 9-24

TREJTNAR, J.
Ozonization as a Means of Waste Water Purifi cation,
W76-05339 9-11

TRELEASE, F. J.
Panel on Discipline Viewpoints and Positions Political Science and Law,
W76-00063 9-01

TRENT, L.
Abundance of Macrocrustaceans in a Natural Marsh and a Marsh Altered by Dredging, Bulk heading, and Filling,
W76-08435 9-16

RENTACOSTE, N. P.
Surface Effects Skimmer Developments,
W76-09308 9-17 5G

REPP, J. P.
A Two-Dimensional Hydrodynamic Model for Cooling-Tower Plumes,
W76-08851 9-17 5B

RESCOTT, P. C.
Documentation of Finite-Difference Model for Simulation of Three-Dimensional Ground-Water Flow,
W76-02962 9-06 2F

Finite-Difference Model for Aquifer Simulation in Two Dimensions with Results of Numerical Experiments,
W76-13085 9-24 2F

RESJO, P. E.
Method for Sludge Treatment,
W76-12410 9-23 5D

REVENA, A. S.
Depositional Models and the Shinarump Member and the Sonsela Sandstone Bed of the Chinle Formation Northeastern Arizona and Northwestern New Mexico,
W76-06258 9-13 2J

REW, D. O.
Phosphorus Quota and the Chlorophyll: Carbon Ratio in Marine Phytoplankton,
W76-05461 9-11 5C

REXLER, B. D. JR.
The Hydrology of an Acid Mine Problem,
W76-06942 9-14 5G

RIBUNSKAYA, T. A.
The Role of Freshwater Fish as a Possible Supplier of P32 Under the Conditions of Pollution of Natural Water Reservoirs by this Radionuclide,
W76-06884 9-14 5B

RICHOPOULOS, D.
Isolation of Water Vibrios in Greece, (In French),
W76-09601 9-18 5A

RIEFF, N. M.
Controlled Eutrophication: Sewage Treatment and Food Production,
W76-03575 9-08 5D

RIHEY, P. T.
Water Quality Control Through Single Crop Agricultural, No 4,
W76-02272 9-05 5G

RIMBLE, D. E.
Map Showing Potential Sources of Gravel and Crushed-Rock Aggregate in the Colorado Springs-Castle Rock Area, Front Range Urban Corridor, Colorado,
W76-12787 9-24 7C

Map Showing Potential Sources of Gravel and Crushed-Rock Aggregate in the Greater Denver Area, Front Range Urban Corridor, Colorado,
W76-12796 9-24 7C

RINKL, F. H.
Resource Allocation Under Uncertainty,
W76-03266 9-07 6A

RIPATHI, B. R.
A Simple and Rapid Method of Soil Water Determination,
W76-11506 9-21 2D

Water Requirement of Potato,
W76-07703 9-15 3F

TRIPATHI, R. P.
Evaporation Characteristics of Three Fine-Textured Tarai Soils Under Various Evaporation Potentials,
W76-06037 9-12 2D

Thermal Properties of Fine Textured Mollisols Under Varying Moisture Conditions,
W76-08364 9-16 2G

TRIPLER, A. B. JR.
Reclamation of Metal Values From Metal-Finishing Waste Treatment Sludges,
W76-00370 9-01 5D

TRIPP, M. R.
Accumulation, Tissue Distribution and Elimination of 203HgCl2 and CH3203HgCl in the Tissues of the American Oyster, Crassostrea Virginiaca,
W76-04927 9-10 5C

Characterization of the Factors Responsible for Death of Fish Infected with Vibrio Anguillarum,
W76-12745 9-24 5C

Factors Affecting the Accumulation and Removal of Mercury from Tissues of the American Oyster Crassostrea Virginica,
W76-01924 9-04 5C

TRISKA, F. J.
Decomposition and Disappearance of Organic Debris in Three Replicate Streams with Different Nitrate Input,
W76-02001 9-05 5B

TRISKO, R. L.
Hydroelectric Power Potential at Corps of Engineers Projects,
W76-09765 9-18 6B

Hydroelectric Power Potential at Corps of Engineers Projects. Recommendations and Executive Summary,
W76-09764 9-18 6B

TRIULZI, C.
Radioactivity in the Mediterranean Sea, (In Italian),
W76-11558 9-21 5A

TRIVELLATO, D.
A Hydrodynamic Approach to the Microdistribution of Benthic Invertebrates in Running Water, (In French),
W76-07938 9-15 2I

TRIVERS, R. E.
Water-Distribution-System Corrosion Control,
W76-06276 9-13 8G

TROEH, F. R.
Measuring Soil Creep,
W76-01856 9-04 7B

TROENDLE, C. A.
Non-Point and Diffused Water Sources: A Variable Source Area Problem,
W76-07026 9-14 5G

TROITSKIY, V. P.
Calculation of Free-Surface Aerated Water Flows,
W76-04306 9-09 8B

TROMBLE, J. M.
Increasing Forage Production on a Semiarid Rangeland Watershed,
W76-02223 9-05 4A

Semiarid Rangeland Treatment and Surface Runoff,
W76-13130 9-24 4A

TRONOV, V. P.
Petroleum Processing Aq. Effluents Purification,
W76-03060 9-07 5D

TRONOVA, T. M.
Microflora of Different Types of Mineral Waters of Southeastern Region of West Siberia, (In Russian),
W76-07416 9-14 5C

TROPPE, F. G.
Planning Wastewater Treatment by Expandable Parameter-Withdrawal Technology,
W76-01665 9-04 5D

Secondary Treatment of Wastewater from Synthetic Rubber Production,
W76-07509 9-15 5D

TROST, P. B.
An Introduction to Hydrogeochemical Exploration,
W76-06956 9-14 4B

TROTH, J. L.
Subarctic Plant Communities and Associated Litter and Soil Profiles in the Caribou Creek Research Watershed, Interior Alaska,
W76-06194 9-13 4D

TROTTA, P. D.
Minimization of Combined Sewer Overflows by Large-Scale Mathematical Programming,
W76-02878 9-06 5D

TROUP, E. M.
Construction for Reducing Vortex Swirl in Rotary Water Sprinklers,
W76-04605 9-10 3F

TROUVE, C.
The Linkage between Chemical Pollution and Bacteriological Pollution in Coastal Zones. (Recherche D'Une Liaison Entre La Pollution Chimique et la Pollution Bacteriologique Dans Les Zones Littorales),
W76-12590 9-23 5B

TROXLER, R. W. JR
Effect of Meteorological Variables on Temperature Changes in Flowing Streams,
W76-12849 9-24 5C

TROY, J. C.
Sewage Treatment Apparatus,
W76-03510 9-08 5D

TROYAN, N. F.
A Transformations of Sulfate Turpentine in Natural Waters (Protsessy prevrashcheniya sul'fatnogo skipidara v prirodnykh vodakh),
W76-10845 9-20 5B

TRPIS, M.
Breeding Places and Seasonal Incidence of Aedes Aegypti, as Assessed by the Single-Larva Survey Method,
W76-06033 9-12 5G

TRUBA, N. A.
Chemiluminescent Method of Determining Manganese in Natural Waters, (In Russian),
W76-09077 9-17 2K

TRUBACHEV, I. N.
Productivity and Biochemical Composition of Chlorella at Different Levels of Illumination and Nitrogen Limitation,
W76-05640 9-12 5C

TRUCHAN, J. G.
Toxicity of Chlorinated Power Plant Condenser Cooling Waters to Fish,
W76-10896 9-20 5C

TRUE, C. R.
New Techniques in Vegetation Maintenance on Military Reservations,
W76-11149 9-21 5G

TRUE, M. E.
Stop Drill String Connection Failure,
W76-04049 9-09 8G

TRUESDALE, G. A.
Objectives and Costs of Advanced Treatment Techniques for Sewage,
W76-09449 9-18 5D

Sewage Treatment to Meet Tomorrow's Needs,
W76-00264 9-01 5D

TRUESDELL, A. H.
An Empirical Na-K-Ca Geothermometer for Natural Waters,
W76-10598 9-20 2K

Production of Superheated Steam from Vapor-Dominated Geothermal Reservoirs,
W76-01587 9-04 3E

TRUETT, J. B.
Development of Water Quality Management Indices,
W76-07152 9-14 5G

Impacts of Hydrologic Modification on Water Quality,
W76-05866 9-12 5G

TRUJILLO, P.
The Preservation and Storage of Urine Samples for the Determination of Mercury,
W76-07959 9-15 5A

TRUMP, C. L.
Fine-Scale Time Variations of Rainfall in Western Oregon,
W76-12209 9-23 2B

TRUMP, J. G.
Prospects for High-Energy Electron Irradiation of Waste-Water Liquid Residuals,
W76-09538 9-18 5D

TRYON, C. A.
Seasonal and Annual Variations in the Quantities of Nitrogen, Potassium, Phosphorus, Magnesium, Calcium, and Manganese Reaching the Forest Floor as Mast in Pennsylvania and Vermont Forests,
W76-10306 9-19 5B

TRYON, C. P.
Ground-Water Quality Variation in Phelps County, Missouri,
W76-12991 9-24 5B

TRZILOVA, B.
Presence and Some Properties of Bacteria of the Family Pseudomonadaceae in the River Danube, (In German),
W76-09792 9-18 5A

TSAI, C.
Evaluation of Mathematical Models for Temperature Prediction in Deep Reservoirs,
W76-02270 9-05 5B

TSAI, C. F.
Chlorinated Sewage Effluents and Avoidance Reaction of Stream Fish,
W76-01523 9-04 5C

TSAI, Y. J.
Analytical Three-Dimensional Transient Modeling of Effluent Discharges,
W76-12433 9-23 5B

TSAM, Z. S.
Hygienic Evaluation of Epoxy Compositions Intended for Use in Water Supply, (In Russian),
W76-03561 9-08 5C

Possibility of Using Phenolic Resins in Household and Drinking Water Supply Systems, (In Russian),
W76-11560 9-21 5C

TSAO, A. L.
Possible Effects of Construction and Operation of a Supertanker Terminal on the Marine Environment in the New York Bight,
W76-13089 9-24 6G

TSAO, G. T.
Oxygen Transfer in Fermentation,
W76-03321 9-07 5A

TSAO, T-F.
Cattle Feedlot Wastewater Salinity,
W76-04429 9-09 5A

TSAO, U.
Pollution Controlled Polysulfide Recovery Process,
W76-03077 9-07 5D

TSAPKO, V. V.
Hygienic Evaluation of an Epoxy Compound and the Possibility of its Use in Submersible Electric Pumps for Domestic Purposes, (In Russian),
W76-11528 9-21 5C

Use of Main Canals and Regulating Reservoirs of Irrigation Systems for Rural Drinking Water Supply, (In Russian),
W76-02951 9-06 4A

TSCHANTZ, A.
Impact of Coal Strip Mining on Water Quality and Hydrology of East Tennessee,
W76-05833 9-12 5B

TSCHAPEK, M.
Wettability of Humic Acid and its Salts,
W76-11421 9-21 2K

TSEEB, Y. Y.
Occurrence and Outflow of Zooplankton in the Kiev Reservoir, (In Russian),
W76-08090 9-15 5C

TSEITLIN, V. B.
Diurnal Oscillations of Oxygen Concentration in the Photosynthetic Layer and Primary Production Computation, (In Russian),
W76-02588 9-06 5C

TSENDROVSKAYA, V. A.
Use of the Method of Mathematical Design of Experiment in Sanitary-Chemical Investigations of Epoxy Coatings, (In Russian),
W76-12393 9-23 5G

TSENG, M-T.
Finite Element Model for Backwater Computa-
tion,
W76-10452 9-19 8B

TSFASMAN, A. B.
Treatment of Wastewaters from Carbamide
Resin Production (Ochistka stochnykh vod o
proizvodstva karbamidnoy smoly),
W76-04086 9-09 5D

TSIMBAL, I. M.
Influence of Oil on Nucleic Acids of Algae,
W76-11821 9-22 5C

TSONEVA, R. A.
Polarographic Determination of Arsenic in In-
dustrial and Drainage Waters
(Polyarograficheskoe opredelenie mysh'yaka v
promyshlennykh i stochnykh vedakh),
W76-03068 9-07 5A

TSUCHIYA, I.
Interannual Fluctuations in the Rainfall of the
India-Equatorial Pacific Region and in the
Tropical Circulation,
W76-00017 9-01 2B

Perennial Snow Covers, Tiny Glacierets and
Snow Fields in Japan as Indices of Climatic
Fluctuations,
W76-00018 9-01 2C

TSUDA, M.
Marked Diminution of Dissolved Oxygen in the
Hypolimnion of Lake Biwa in August, 1973, (In
Japanese),
W76-10976 9-20 5C

TSUHSAWA, H.
Interaction Between Surfactant and Dye IV.
Application of the Acridine Orange Method to
the Survey of Pollution of Alkylbenzene Sul-
fonate in Rivers and the Survey of Water Pollu-
tion in Kinokawa,
W76-09364 9-17 5A

TSUJI, T.
The Effects of Ozone Deodorization Equip-
ment for the Sewage Odor (Gesui shuki ni Tai-
suru Ozon Dasshusochi no Koka),
W76-01771 9-04 5D

Method of Extracting Heavy Metals from In-
dustrial Waste Waters,
W76-05966 9-12 5D

Removal of Heavy Metals from Wastewater by
Ferrite Coprecipitation,
W76-02577 9-06 5D

TSUKAMOTO, T.
Water Quality Determination Apparatus,
W76-02596 9-06 5A

TSUKIDATE, J.
Tracer Experiments on the Effect of
Micronutrients on the Growth of Porphyra
Plants-II Manganese-54 and Zinc-65 Assimila-
tion in Relation to Environmental Factors,
W76-01916 9-04 5C

TSUMURA, K.
Chlorinated Hydrocarbon Residues in Fishes
from the Lower Fraser River,
W76-10505 9-20 5C

TSUNODA, A.
Oil Adsorbent,
W76-12409 9-23 5G

SUNODA, S.
Experimental Study on Direct Coagulation Filtration Method. (Chokusetsu gyoshu roka-ho ni kansuru jikken kekka),
W76-00217 9-01 5F

SUNOGAI, S.
PB-210 in Precipitation in Japan and its Implication for Transport of Continental Aersols Across the Ocean,
W76-03385 9-07 5B

SUTSUI, Y.
SCP Production from Spent Sulphite Liquor (Aryusan parupu haieki yori no SCP no seisan),
W76-04085 9-09 5D

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W76-01055 9-03 5D

SUTSUMISHITA, K.
Process for Treating Waste Water Effluent Having Odours,
W76-00596 9-02 5D

SVID, A. A.
Freezing of an Earth Dam from the Dry Slope Side,
W76-02914 9-06 8D

SYBIZOV, I. S.
Effects of Some Natural Factors on the Transition of Sr90 from the Soil Cover to Surface Waters,
W76-06865 9-14 5B

SYPLAKOVA, G. V.
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W76-03536 9-08 5C

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An Experiment with a Linearly Increasing Spacing of Subsurface Drains,
W76-13020 9-24 4A

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W76-10826 9-20 4C

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W76-03546 9-08 5C

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Residual Organic Matter in Activated Sludge Process Effluents. IX. Isolation from Water, Fractionation on Aluminum Oxide Columns and Attempts of Identification (Zbytkove latsy po aktivacnim procesu. IX. Izolace z vodneho prostredi, deleni na kyslicniku hlinitem a pokusy o identifikaci),
W76-10515 9-20 5A

Residual Organic Matter in Activated Sludge Process Effluents VIII. Separation by Molecular Weights on Sephadex Columns (Zbytkove latky po aktivacnim procesu VIII. Deleni podle molekulovych hmotnosti na sephadexech),
W76-10514 9-20 5A

TUCKER, D. F.
Flood-Prone Areas of Gadsden County, Florida,
W76-06443 9-13 7C

TUCKER, D. L.
Use of Mathematical Models in the Palo Alto Marshland Rehabilitation Project,
W76-09949 9-18 8B

TUCKER, E. V.
Holocene Transgressions and Regressions on the Essex Coast, Outer Thames Estuary,
W76-01193 9-03 2L

TUCKER, J. M.
Minimizing the Salt Burdens of Irrigation Drainage Waters,
W76-00828 9-02 3C

TUCKER, R.
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W76-05129 9-11 4B

TUCKER, T. C.
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W76-00735 9-02 3C

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W76-08763 9-17 3C

TUELLER, P. T.
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W76-02161 9-05 2J

TUFFEY, T. J.
Oxidation of Lake and Impoundment Hypolimnia,
W76-04016 9-09 5C

The Plight of the Urban Reservoir: A Case Study,
W76-07452 9-15 5C

TULI, J. M.
Control of Pollution From Petroleum Refineries,
W76-04023 9-09 5D

TULKENS, H.
Stability Analysis of an Effluent Charge and the 'Polluters Pay' Principle,
W76-06623 9-13 5G

TULLIS, J. P.
Cavitation and Size Scale Effects for Orifices,
W76-00489 9-01 8B

TULLOCK, R. J.
Rate of Chloride and Water Movement in Southern California Soils,
W76-08545 9-16 2G

TULUMELLO, A.
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W76-00507 9-02 5A

Automatic Organic Monitoring System for Storm and Combined Sewers,
W76-06651 9-13 5A

TUMBLESON, M. E.
Serum Constituents of the Malaysian Prawns (Macrobrachium Rosenbergii) and Pink Shrimp (Penaeus Marginatus),
W76-07966 9-15 5C

TUNG, C. C.
Covariance Functions and Spectra of a Random Wave Field,
W76-06931 9-14 2L

Statistics of Random Wave Field,
W76-06397 9-13 8B

TUNG, F-L.
A Dynamic Regional Model for Evaluating Resource Development Programs,
W76-12520 9-23 4A

TUNNICLIFF, B. M.
The Historical Potential of Snowfall as a Water Resource in Arizona,
W76-02675 9-06 3B

TUOMARLA, J.
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W76-02253 9-05 5D

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Lignosulfonates and Natural Water-Soluble Lignin in the Lielupe River (Lignosul'fonaty i prirodnyi vodorastvorimyi lignin v vode r. Lielupe),
W76-10835 9-20 5B

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W76-09091 9-17 2I

TURIAN, R. M.
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W76-03793 9-08 5D

TURK, L. J.
Aquifer Evaluation Using Depositional Systems: An Example in North-Central Texas,
W76-05554 9-12 2F

Aquifer Evaluation Using Depositional Systems: An Examples in North-Central Texas,
W76-03111 9-07 2F

TURKINGTON, C. R.
Grapevine Response to Furrow and Trickle Irrigation,
W76-06032 9-12 3F

TURNAGE, A. C. JR.
Shallow Subsurface Disposal of Wastewater,
W76-11228 9-21 5E

TURNER, A. B.
Apparatus for Treating Industrial and Domestic Waste Waters,
W76-09429 9-18 5D

System for Introducing Flocculating Ions and Air into Waste Water Treatment Systems,
W76-04613 9-10 5D

TURNER, B. G.
Extended Aeration in a Combined Wastewater Treatment Plant,
W76-11373 9-21 5D

TURNER, D. O.
On-The-Farm Determination of Animal Waste Disposal Rates for Crop Production,
W76-07200 9-14 5D

TURNER, J. K.
Filtering Apparatus and Process,
W76-05546 9-12 5D

TURNER, J. T.
Phytoplankton of the Tampa Bay System, Florida,
W76-07973 9-15 5C

TURNER, L. A.
Method and Apparatus for Controlling Water Flow From an Impounded Body of Water,
W76-02595 9-06 4A

TURNER, N. C.
Determination of Soil-Water Diffusivity for Anisotropic Stratified Soils,
W76-07767 9-15 2G

TURNER, R. E.
A Generalized Tensor Formulation of Atmosphere and Seas Dynamics,
W76-04317 9-09 2A

Spectral Reflectance and Radiance Characteristics of Water Pollutants,
W76-13176 9-24 5A

TURNER, R. M.
Quantitative Relationship Between Reflectance and Transpiration of Phreatophytes--Gila River Test Site,
W76-12802 9-24 2D

Saltcedar (Tamarix Chinensis) Seed Production, Seedling Establishment, and Response to Inundation,
W76-06590 9-13 3B

A Second Locality for Native California Fan Palms (Washingtonia Filifers) in Arizona,
W76-13069 9-24 2I

TURNER, R. R.
The Effect of urban Land Use on Nutrient and Suspended-Solids Export from North Florida Watersheds,
W76-10331 9-19 4C

The Impact of Highway Construction on a North Florida Watershed,
W76-10945 9-20 5B

TURQUIN, M. J.
Incidence of the Terrestrial Communities on the Seasonal Reproduction of the Troglobitic Amphipod: Niphargus, (In French),
W76-07940 9-15 2I

TURVEY, N. D.
Water Quality in a Tropical Rain Forested Catchment,
W76-03132 9-07 5B

TUSCHALL, J. R.
Comparative Atomic Absorption Spectroscopic Study of Trace Metals in Lake Water,
W76-05051 9-11 5A

TUSCHALL, J. R. JR.
Comparative Atomic Absorption Spectroscopic Study of Trace Metals in Lake Water,
W76-02511 9-06 5A

TUTSCHEK, E.
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W76-05729 9-12 5E

TVERSKOI, I.
Ozonization of Water in Moscow (Ozonisation De L'Eau a Moscou),
W76-08997 9-17 5F

TWEETEN, T. N.
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W76-04759 9-10 5A

TWENHOFEL, W. S.
United States Geological Survey's Hydrogeological Research Programs and Plans Related to Disposal of Radioactive Waste into Geologic Formations,
W76-04411 9-09 5B

TWENTER, F. R.
Southeastern Michigan Water-Resources Study: Ground Water and Geology,
W76-06457 9-13 4B

Water Resources of Basins for Minor Streams Draining into St. Clair River, Lake St. Clair, Detroit River, and Lake Erie, Southeastern Michigan,
W76-05427 9-11 7C

TYBURCZY, J. A.
Amounts and Spectral Properties of Dissolved Organic Compounds from Some Freshwater of the Southeastern U.S.,
W76-12138 9-22 5A

TYER, B. R.
Oxygenation Equipment--Aerators and Pure Oxygen Systems,
W76-03198 9-07 5D

TYLER, B. D.
Development of an Oil-Water Pollution Monitoring System,
W76-07092 9-14 5A

TYLER, J. E.
Beam Transmissometers for Oceanographic Measurements,
W76-03879 9-08 2L

TYLER, J. J.
Cadmium and Zinc Contents of Corn Leaf and Grain Produced by Sludge-Amended Soil,
W76-06304 9-13 5A

TYLER, P. A.
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W76-07704 9-15 5B

TYLER, W. S.
Recovery of Oil and Oil-Soluble Contaminants from the Surface of Water,
W76-01714 9-04 5G

TYMOSZCZUK, J.
Process and Apparatus for Treating Wastes by a Combined Activated Sludge and Biological Filter Bed,
W76-01433 9-03 5D

TYO, R. M.
Comparative Toxicity of Polyelectrolytes to Selected Aquatic Animals,
W76-05740 9-12 5C

TYRALSKI, T.
Construction and Operation of High-Pressur Filters with Molecular Sieves (Budowa i dz alanie wysokocisnieniowych filtrow z sitan molekularnymi),
W76-12509 9-23 5

TYSON, J. W.
The Offshore Ecology Investigation,
W76-09382 9-17 5

TYSON, P. D.
Secular Changes in South Africa Rainfall: 188 to 1972,
W76-03367 9-07 2

TYTECA, D.
Cost Functions for Wastewater Conveyanc Systems,
W76-12513 9-23 5

TYUL'DYUKOV, V. A.
Dependence of Pasture Grass Yield on So Moisture Level, (In Russian),
W76-09930 9-18 4

TYUTEN'KOVA, N. L.
Destruction of Organic Matter in Grounds o Kapchagai Reservoir, (In Russian),
W76-12320 9-23 5

Seasonal Dynamics of Bacterioplankton of th Kapchagal Reservoir in the Third Year of it Filling, (In Russian),
W76-07279 9-14 5

TZIMAS, E.
The Hysteresis in the Relationship Betwee Hydraulic Conductivity and Soil Water Con tent,
W76-03754 9-08 2

TZOU, K. T. S.
Transport of Chlorinated Hydrocarbons i Sediments of the Upper Chesapeake Bay,
W76-10607 9-20 5

UCHIDA, S.
Ammonia Removal from Wastewater b Ligand Exchange,
W76-12611 9-23 5

UCHTMANN, D. L.
Reform of Illinois Water Resource Laws with Particular Reference to the Drainage Code and Closely Related Laws,
W76-12217 9-23 6

UDAL'TSOVA, N. I.
Determination of Fluorine in Drinking Wate with a Cerium(III)- or Lanthanum Alizarin Complex, (In Russian),
W76-09796 9-18 5A

UDEN, R. H.
Activated Sludge Plant,
W76-08980 9-17 5D

UDEY, L. R.
Relation of Water Temperature to Ceratomyxo sis in Rainbow Trout (Salmo Gairdneri) and Coho Salmon (Oncorhynchus Kisutch),
W76-12716 9-24 5C

UEDA, K.
High Ethylmercury in River Fish By Man-Made Pollution,
W76-03782 9-08 5B

Spectral Analysis of Olfactory Responses to Amino Acids in Rainbow Trout, Salmo Gairdneri,
W76-03017 9-07 5C

EDA, T.
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W76-00218 9-01 5D

Study on Waste Water Treatment with Calcium Silicates (I) on the Removal of CD(-), PB(-), CR(-) Salts, (In Japanese),
W76-03065 9-07 5D

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W76-00520 9-02 2G

EKER, K. J.
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W76-00796 9-02 5D

EMATSU, K.
Effects of Enriched Diet with Iron in Culture of Yellow-Tail, (In Japanese),
W76-11573 9-21 5C

ENO, Y.
Catalytic Removal of Sodium Sulfide from Aqueous Solutions,
W76-05329 9-11 5D

New Method for Removing Sodium Sulfide from Sludge,
W76-09278 9-17 5D

ESHIMA, H.
Tidal Residual Circulations in the Hydraulic Model,
W76-10431 9-19 2L

HL, J. E.
Water Resources of Hancock County with Emphasis on Ground-Water Availability,
W76-00534 9-02 7C

HL, V. W. JR.
The Application of Step-Drawdown Pumping Tests for Determining Well Losses in Consolidated Rock Aquifers,
W76-02747 9-06 4B

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W76-09268 9-17 7B

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Construction Procedures and Review of Plans and Grant Applications,
W76-05320 9-11 5D

LA, A. T.
A Scheme for Stochastic State Variable Water Resources Systems Optimization,
W76-01685 9-04 2E

LANOWICZ, R. E.
The Mechanical Effects of Water Flow on Fish Eggs and Larvae,
W76-07491 9-15 8I

Modeling the Chesapeake Bay and Tributaries: a Synopsis,
W76-09587 9-18 2L

A Survey for the use of Remote Sensing in the Chemical Bay Region,
W76-01327 9-03 5B

ULLRICH, A. H.
Lower Waller Creek Master Improvement Plan,
W76-11662 9-22 5D

ULLRICH, H.
Apparatus for Processing Flushing Liquor from a Gas Main of Coke Ovens,
W76-04282 9-09 5D

ULMER, J. H.
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W76-02631 9-06 7C

ULTSCH, G. R.
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W76-11921 9-22 2I

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W76-09445 9-18 5D

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W76-11213 9-21 5D

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W76-06619 9-13 5A

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W76-09258 9-17 2G

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W76-08776 9-17 5C

UNNY, T. E.
Intervention Analysis in Water Resources,
W76-03165 9-07 2E

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W76-09847 9-18 6A

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W76-09964 9-18 2E

Political Resolution of Environmental Conflicts,
W76-11129 9-21 6G

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W76-09544 9-18 5D

URBAN, P.
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W76-04784 9-10 5D

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URIE, D. H.
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URLICH, C. M.
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USUI, Y.
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W76-01726 9-04 5D

UTOSAWA, K.
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W76-10037 9-19 5D

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W76-02764 9-06 2H

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UYE, S.
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W76-00336 9-01 5C

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W76-01969 9-04 6B

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Sr90 in Water, Bottom, and Water Organisms in Latvian Lakes of Various Types,
W76-06867 9-14 5B

Study of Sr90/Sr Ratio in a Latvian Seaside Lake,
W76-06869 9-14 5C

Study of the Strontium 90/Strontium Isotope Balance in a Latvian Lake, (In Russian),
W76-06733 9-13 5A

VAGANOV, E. A.
Possibility of Determining the Rate of Seasonal Radial Growth of Trunks and Changes in the Water Regime of Trees Using a Photometric Curve, (In Russian),
W76-08521 9-16 2I

VAGIROVA, S. M.
Stages of Salmo Fario Linne Development in the Chaikendsk Salmon Factory (USSR), (In Russian),
W76-00468 9-01 2I

VAGNERS, J.
Comparison of Ecological Impacts of Postulated Oil Spills at Selected Alaskan Locations. Volume I. Introduction, Summary, Methodology, Evaluation and Appendices,
W76-12379 9-23 5C

VAHL, H.
Distribution Functions Limited at the Orig
(Im Ursprung Begrenzte Verteilungsfun
tionen),
W76-06316 9-13 2

VAIGNEUR, H. O.
Dairy Lagoon System and Groundwater Qua
ty,
W76-07185 9-14 5

VAILLANCOURT, G.
Influence of Heat from the Gentilly Nucle
Power Station on Water Temperature and Ga
tropoda, (Influence De L'Apport Thermiq
Originaire de la Centrale Nucleaire Gentilly S
La Temperature De L'eau Et Sur L
Gasteropodes),
W76-08874 9-17 5

VAINSHTEIN, M. B.
Characteristics of Thionic Bacteria from t
Lakes of the Mari ASSR, (In Russian),
W76-09814 9-18 5

VAJDA, M.
Use of Jet Pumps in Marine Waste Disposal,
W76-03379 9-07 5

VAJTA, L.
Some Problems of the Investigation of Was
Waters Generated in the Petroleum Industr
(Koolajipari szennyvizek vizsgalatanak nehar
kerdese),
W76-06974 9-14 5

VAKIL, S.
Criteria for the Use of Vertical Averaging
Great Lakes Dispersion Models,
W76-02154 9-05 5

VAKIL, S. J.
Criteria for the Use of Vertical Averaging i
Great Lakes Dispersion Models,
W76-02156 9-05 2

VAKULIN, A. A.
Forecasting the Occurrence of Wind Erosion
Soil, (In Russian),
W76-00362 9-01 2

VALCARCEL, M.
Simultaneous Spectrophotometric Determina
tion of Nickel and Cobalt in Mixtures with
Hydroxypicolinealdehyde Azine,
W76-09042 9-17 5

VALDES-KRIEG, E.
Determination of Surface Equilibria and Mas
Transfer Rates in a Concurrent Flow Bubbl
Column,
W76-10632 9-20 5

VALENTI, R. J.
Induced Polypoidy in Tilapia Aure
(Steindachner) By Means of Temperatur
Shock Treatment,
W76-03050 9-07 5

VALENTINE, D. W.
Asymmetry Analysis in Fishes: A Possibl
Statistical Indicator of Environmental Stress,
W76-10121 9-19 5

Skeletal Anomalies in Marine Teleosts,
W76-04046 9-09 5

VALI, G.
Freezing Nucleation in Aqueous Electrolytes,
W76-01479 9-03 2

eterogeneous Ice Nucleation in the Presence
Aliphatic Amines and Ammonia,
76-10716 9-20 3B

IELA, I.
he Effect of Fertilization on the Species Com-
sition of Salt Marsh Diatoms,
76-08774 9-17 5C

xport of Lead from Salt Marshes,
76-11717 9-22 5B

eduction of Field Populations of Fiddler
rabs by Uptake of Chlorinated Hydrocarbons,
76-11588 9-21 5C

KOVIC, V.
race-Element Analysis Using X-Ray Emission
pectroscopy,
76-09697 9-18 5A

LDERUTEN, R.
oil Moisture Regime with Subirrigation,
76-13023 9-24 2G

LEE, C.
Vater Economy of a Soil on Weathered
ranite Under a Spruce Grove, (In French),
76-06728 9-13 2G

LICELLI, G.
pecifications for Container Facilities by Simu-
tion,
76-09943 9-18 6A

LO, S.
ommon Fundamentals in the Technologies of
Vater and Wastewater Treatment, (A Viz-es
zennyviztitas Technologiaiajauak Kozos
lapjai),
76-00561 9-02 5D

LORAS, N.
oil Water Repellency and the Use of Nonionic
urfactants,
76-04001 9-09 2G

N AACKEN, K. L.
vercomes Phosphate Problem,
76-02297 9-05 5D

N AART, R.
rainage and Reclamation Performance at the
mam Experimental Field in the Greater Mus-
ayeb Project, a Monitoring Study,
76-06581 9-13 3C

N BAALEN, C.
vidence for the Occurrence of Specific Iron
III)-Binding Compounds in Near-Shore Marine
cosystems,
76-01101 9-03 5B

N BAVEL, C. H. M.
ynamic Simulation of Water Storage in Fal-
w Soil as Affected by Mulch of Hydrophobic
ggregates,
76-03365 9-07 2G

oil Water Potential and Plant Behavior: A
ase Modeling Study with Sunflowers,
76-06461 9-13 2G

N BEEK, C. G. E. M.
Microscopic-Scale Model of Soil Water Up-
ke and Salt Movement to Plant Roots,
76-03860 9-08 2G

N BEEK, R.
rosion and Transport of Bed-Load Sediment,
76-12827 9-24 2J

VAN BEESTON, C.
The Application of a Spillway for River Flood Control,
W76-05098 9-11 4A

VAN BRAHANA, J.
Beneath the Tenn-Tom,
W76-11415 9-21 4A

VAN BRAKEL, J.
Anaerobic Treatment of Dilute Waste Waters,
W76-09673 9-18 5D

VAN COTTHEM, W.
The Partial Areas of Distribution of Equisetum Telmateia Ehrh. In Belgium and Some New Interesting Stands,
W76-00162 9-01 2I

VAN DAM, J. C.
Partial Depletion of Saline Groundwater by Seepage,
W76-10920 9-20 2L

VAN DE KREEKE, J.
Increasing the Mean Current in Coastal Channels,
W76-12201 9-23 2L

Tide-Induced Mass Transport; A Flushing Mechanism for Shallow Lagoons,
W76-10947 9-20 2L

Tide-Induced Mass Transport in Lagoons,
W76-06396 9-13 2L

VAN DE REE, W. J.
Measured Contributions of the Terms of the Vertically Integrated Hydrodynamic Equations,
W76-10442 9-19 2L

VAN DE VOORDE, H.
The Effect of Thermal Pollution on the Distribution of Naegleri Fowleri,
W76-08930 9-17 5C

VAN DE WALLE, E.
Outdoor Recreation Planning and Research in the U.S.A.,
W76-12585 9-23 6B

VAN DEN BERG, A. J.
An Analytical Method for Determining Heat Transfer from Power Plant Coolant in the Florida Boulder Zone,
W76-12777 9-24 5B

Gamma Irradiation for Sewage Treatment at US Army Facilities,
W76-09525 9-18 5D

Synergistic Effects of Irradiation of Waste-Water.
W76-09524 9-18 5D

VAN DEN BERG, J. A.
Data Analysis and System Modelling in Urban Catchment Areas (In the New Town of Lelystad, The Netherlands),
W76-12981 9-24 2A

VAN DER GRAFF, J. H. J. M.
Industrial Experience of Sewage Sludge Processing with Zimpro Installations in the Netherlands,
W76-09709 9-18 5D

VAN DER KAMP, G.
Determining Aquifer Transmissivity by Means of Well Response Tests: The Underdamped Case,
W76-08124 9-16 2F

VAN DER KLUGT, N.
The Contaminaion of Dutch Soils with Mercury and a Few Other Heavy Metals,
W76-07450 9-14 5B

VAN DER LEEDEN, F.
Ground-Water Pollution Problems in the Northwestern United States,
W76-10083 9-19 5B

VAN DER LEER, R. C.
The Occurrence of Organic Micropollutants in the River Rhine and the River Maas in 1974,
W76-12988 9-24 5A

VAN DER MAAS, H. L.
The Toxicity of the Herbicide Dichlobenil to Goldfish (Carassius Auratus),
W76-11188 9-21 5C

VAN DER MARK, H.
A Simplified Method for the Biological Assessment of The Quality of Fresh and Slightly Brackish Water,
W76-13115 9-24 5A

VAN DER MEER, R. R.
Anaerobic Treatment of Dilute Waste Waters,
W76-09673 9-18 5D

VAN DER SCHOT, F. J.
Industrial Wastewater: Joint or Separate Treatment. (Industrieel Afvalwater: Sanering of Zuivering.).
W76-04078 9-09 5D

VAN DER WAL, A. F.
An Electronic Leaf Wetness Recorder,
W76-00569 9-02 2I

VAN DER WALT, S. R.
The Recovery of Fe, Mn and Al from a Mine Water Effluent,
W76-03312 9-07 5G

VAN DER ZEL, H. J.
Investigation of Some Physical Properties of the Soils in the Dalmaj Pilot Project Area,
W76-06579 9-13 2G

VAN DER ZWAARD, J. J.
Movable-Bed River-Models,
W76-09969 9-18 2E

VAN DERVEER, D.
Physiologic Responses to Water Immersion in Man: A Compendium of Research,
W76-09655 9-18 10C

VAN DEVENDER, T. R.
Late Pleistocene and Modern Plant Communities of Shinumo Creek and Peach Springs Wash, Lower Grand Canyon, Arizona,
W76-09074 9-17 2I

VAN DIJICK, P.
The Effect of Thermal Pollution on the Distribution of Naegleri Fowleri,
W76-08930 9-17 5C

VAN DYK, L. P.
Total Population Density of Crustacea and Aquatic Insecta as an Indicator of Fenthion Population of River Water,
W76-03779 9-08 5G

VAN ELDIK, R.
The Recovery of Fe, Mn and Al from a Mine Water Effluent,
W76-03312 9-07 5G

VAN ENGEL, W. A.
A New Device For Subsampling Plankton Samples,
W76-09396 9-17 7B

VAN ES, J. R.
A Comparison of Decision Making and Administrative Organization for Municipal Water Supplies in Medium-Sized and Small Illinois Municipalities,
W76-01503 9-04 6E

VAN EVERDINGEN, R. O.
Subsurface Disposal of Liquid Industrial Wastes,
W76-05573 9-12 5B

VAN FOSSEN, L. D.
Swine Manure Collection and Removal Systems,
W76-11037 9-20 5D

Swine Systems for Iowa and North Central States,
W76-11041 9-20 5D

VAN GENUCHTEN, M. T.
Predicting Anion Movement in Disturbed and Undisturbed Soils,
W76-05402 9-11 2G

Transfer of Boron and Tritiated Water Through Sandstone,
W76-08547 9-16 5B

VAN HUISEN, A. T.
Multiple-Completion Geothermal Energy Production Systems,
W76-11828 9-22 8B

VAN HYLCKAMA, T. E. A.
Water Use by Saltcedar as Measured by the Water Budget Method,
W76-08573 9-16 2D

VAN LOON, J. C.
Heavy Metals in Agricultural Lands Receiving Chemical Sewage Sludges, Volume II,
W76-04244 9-09 5D

Heavy Metals in Agricultural Lands Receiving Chemical Sewage Sludges, Volume III,
W76-07676 9-15 5A

Long-Term Acidification of a Lake and Resulting Effects on Fishes,
W76-11178 9-21 5C

A Study of the Atomic Absorption Determination of Some Important Heavy Metals in Fertilizers and Domestic Sewage Plant Sludges,
W76-03316 9-07 5A

VAN LOON, L.
Nearshore Currents at Point Beach, Wisconsin (1974-1975),
W76-12758 9-24 7B

VAN LOON, L. S.
Measurements of Eddy Diffusivities in Nearshore Regions of Lake Michigan,
W76-12772 9-24 5B

Measurements of Physical Phenomena Related to Power Plant Waste Heat Discharges: Lake Michigan, 1973 and 1974,
W76-12770 9-24 5B

Near Shore Lake Current Investigations,
W76-12774 9-24 5B

Thermal Plume Mapping,
W76-12771 9-24 5B

VAN MARSE, M. J.
Further Observations on the Migration of Gammarus Zaddachisexton (Crustacea, Amphipoda) in a French Stream,
W76-06046 9-12 2I

VAN MEER, A. J. J.
Recent Investigations into the Disposal of Tannery Waste Water,
W76-07506 9-15 5D

Recent Investigations into the Disposal of Tannery Waste Water,
W76-08183 9-16 5D

Some Aspects of a Chemical Treatment of the Waste Waters from the Beamhouse,
W76-02803 9-06 5D

Trivalent Chromium in Tannery Effluents,
W76-08295 9-16 5D

VAN METER, W. P.
Predicting Effects on Fish of Fire Retardants in Streams,
W76-02519 9-06 5C

VAN MEYL, E.
The Analysis of Surface Waters for Iron, Zinc, and Lead by Coprecipitation on Iron Hydroxide and X-Ray Fluorescence,
W76-04760 9-10 5A

VAN NESS, G. B.
Pathogenic Microorganisms in the Environment,
W76-07156 9-14 5C

VAN NOTE, R. H.
A Guide to the Selection of Cost-Effective Wastewater Treatment Systems,
W76-09772 9-18 5D

VAN OOSTEN, M. F.
Effect of Soil and Water Conditions on the Rural Landscape Around Wouw, North Brabant, (In Dutch),
W76-03922 9-08 3F

VAN OTTERLOO, H. R.
Bacteria and Phosphorus as Indicators of the Extent of a Large Sewage Spill in Lake Erie,
W76-11315 9-21 5A

VAN RAALTE, C. D.
The Effect of Fertilization on the Species Composition of Salt Marsh Diatoms,
W76-08774 9-17 5C

VAN RAALTE, C. R.
Long-Term Effects of an Oil Spill at West Falmouth, Massachusetts,
W76-00146 9-01 5C

VAN RIEMSDIJK, W. H.
Evidence for New Aluminum Phosphate Phase from Reaction Rate of Phosphate with Aluminum Hydroxide,
W76-06295 9-13 5E

VAN RYZIN, E.
Anaerobic Processes, (Literature Review),
W76-12673 9-23 5D

VAN SCHAGEN, F. P.
The Biological Purification of Waste Water in Carrousel Plants (Die Biologische Reinigung des Abwassers in Carrouselanlagen),
W76-03332 9-07 5D

VAN URK, H.
Isotopic Composition of Groundwater in Sem
Arid Regions of Southern Africa,
W76-03130 9-07 2

VAN VAERENBERCH, E.
The Elimination of Phosphates and Nitrates
Waste Water by Algae Cultures: I (/n Flemish
W76-01312 9-03 5

VAN VALIN, C. C.
Formation of Cloud and Ice Nuclei by th
Combustion of Crude Oil,
W76-01857 9-04 2

VAN VLIMMEREN, P. J.
New Beamhouse Development to Simplif
Tannery Waste Water Management,
W76-12427 9-23 5

Recent Investigations into the Disposal of Ta
nery Waste Water,
W76-07506 9-15 5

Recent Investigations into the Disposal of Ta
nery Waste Water,
W76-08183 9-16 5

VAN VOLK, V.
Disposal of Farm Animal Wastes Through th
Soil,
W76-01384 9-03 5

VAN WEELE, B.
Management of Flood Control and Drainage
the Urbanizing Zone,
W76-09750 9-18 4

VAN WEERS, A. W.
The Effect of Temperature on the Uptake an
Retention of Co 60 and Zn 65 by the Commo
Shrimp Crangon Crangon (L),
W76-09493 9-18 5

VANCINI, C. A.
Apparatus for Removing Surface Films Fro
Liquids,
W76-07653 9-15 5

VANDAM, D.
Ferric Chloride and Organic Polyelectrolyte
for the Removal of Phosphorus,
W76-07059 9-14 5

VANDEN BERG, A.
Determining Aquifer Coefficients fro
Residual Drawdown Data,
W76-05689 9-12 2

VANDENBERG, A.
Program Esoph - Extended Soph, Simulation
Time-Variant Piezometric Surface in a Co
fined, Leaky Aquifer Subjected to Pumping.
W76-10498 9-19 7

VANDENBURGH, A. S.
Solute Balance at Abert and Summer Lake
South-Central Oregon,
W76-01570 9-04 2

VANDER PLOEG, R. A.
Trickle Irrigator,
W76-10970 9-20 3

VANDERBERG, A.
Program Front, Two - Dimensional Simulatio
of a Moving Intrusion Front in a Thin Horizo
tal Confined Aquifer,
W76-04172 9-09 7

Program Tebes, Transmissivity, Leakage Factor and Storativity from a Least Squares Fit of Residual Drawdown,
W76-04181 9-09 7C

ANDERBERGHE, N.
An Evaluation of CM Patterns for Grain-Size Studies of Fine Grained Sediments,
W76-03855 9-08 2J

ANDERBORGHT, J-P.
Vertical Distribution of Nitrate Concentration in Interstitial Water of Marine Sediments with Nitrification and Denitrification,
W76-05678 9-12 5B

ANDERHOLM, D. H.
Area Needed for Land Disposal of Beef and Swine Wastes,
W76-01029 9-03 5E

Field Performance of Selected Beef Feedlot Waste Handling Systems,
W76-01040 9-03 5E

Monitoring on-farm waste management systems.
W76-00914 9-02 5D

Water Quality and Management Characteristics of Feedlot Runoff Holding Ponds,
W76-10545 9-20 5D

ANDERHORST, J. R.
The Role of Dispersion in Fuel Oil Bioassay,
W76-11100 9-20 5C

ANDERPLOEG, H. A.
Bioaccumulation Factors for Radionuclides in Freshwater Biota,
W76-04846 9-10 5C

A Specific-Activity and Concentration Model Applied to Cesium Movement in an Oligotrophic Lake,
W76-10275 9-19 5C

ANDERVOORDE, G.
Experimental Investigation of the Diffusivity Coefficient,
W76-04305 9-09 2G

ANDEWOESTYNE, M.
Papeteries De L'AA -- Suspended Solids Reduced by 98%, Organic Materials by 74% (Papeteries de l'Aa -- mes reduites de 98%, et MO de 74%),
W76-09341 9-17 5D

ANDOMELEN, J. F.
Aircraft and Satellite Monitoring of Water Quality in Lake Superior Near Duluth,
W76-02051 9-05 5A

ANDYKE, J. M.
Comparative Effects of Diquat Plus Copper Sulfate on Aquatic Organisms,
W76-09821 9-18 5C

ANESCHE, H. L.
Source Identification of Fuel Oil Spills,
W76-11314 9-21 5A

ANHEEMST, H. D. J.
Water Economy of a Fictive Crop,
W76-07402 9-14 2D

ANKLAVEREN, R. W.
Comparison of Methods for Estimating Potential Evapotranspiration in the North Platte Basin of Wyoming,
W76-11115 9-21 2D

Evapotranspiration by Phreatophytes in the North Platte Basin of Wyoming,
W76-00673 9-02 2D

VANLOON, J. C.
A Critical Study of the Application of Graphite-Furnace Non-Flame Atomic Absorption Spectrometry to the Determination of Trace Base Metals in Complex Heavy Matrix Sample Solutions,
W76-02885 9-06 5A

VANN, W. L.
Radar Derived Spatial Statistics of Summer Rain - Experiment Description,
W76-12178 9-23 7B

VANNOTE, R. L.
Community Productivity and Energy Flow in an Enriched Warm-Water Stream,
W76-07608 9-15 5C

VANSTAEN, H.
Shifts in Microbial Groups of River Water Upon Passage Through Cooling Systems,
W76-00335 9-01 5C

VANVARI, M. R.
Experimental Study of Turbulent Stratified Shearing Flow,
W76-12841 9-24 2L

VANWINKLE, W. JR.
Striped Bass, A Selected, Annotated Bibliography,
W76-04840 9-10 6E

VANYURIKHINA, L. N.
Use of Main Canals and Regulating Reservoirs of Irrigation Systems for Rural Drinking Water Supply, (In Russian),
W76-02951 9-06 4A

VANZANDT, J. K.
Hydrologic Data for Cow Bayou, Brazos River Basin, Texas, 1973,
W76-02145 9-05 7C

Hydrologic Data for Cow Bayou, Brazos River Basin, Texas, 1974,
W76-10146 9-19 7C

VAQUER, A.
Absorption and Accumulation of Pesticides Residues and Chlorinated Biphenyls in Both Wild Aquatic Vegetation and Rice in the Camargue Region, (In French),
W76-11582 9-21 5C

VARANI, F. T.
Method and Apparatus for the Anaerobic Digestion of Decomposable Organic Materials,
W76-05981 9-12 5D

Method and Apparatus for Treating a Continuous Flow of Fluid Waste Products and Other Materials,
W76-08993 9-17 5D

VARMO,
Inshore Effect of Pollution on the Biota of the Baltic, Southern Finland,
W76-08791 9-17 5C

VARSHNEY, D. V.
Shear Distribution in Bends in Rectangular Channels,
W76-00552 9-02 8B

VARTIAK, J. F.
Controlling Evaporation of Water,
W76-03506 9-08 3B

VASIL'EV, E. V.
Effect of Ammonium Lignosulfonate on Soil Microorganisms (O vliyanii lignosul'fonata ammoniya na pochvennye mikroorganizmy),
W76-02464 9-05 5C

VASIL'EVA, G. L.
Rotifer Production in Lake Baikal, (In Russian),
W76-09791 9-18 5C

VASIL'EVA, I. M.
Effect of Hardening on the State of Water in Seedlings of Winter Cultures, (In Russian),
W76-09095 9-17 2I

VASIL'EVA, L. Y.
Study of Water Sorption on Biopolymers, (In Russian).
W76-11532 9-21 2K

VASIL'EVA, M. I.
Characteristics of the Primary Production in the Salmon Breeding Lake, (In Russian),
W76-13193 9-24 5C

The Role of Microflora in the Productivity of a Salmon Breeding Lake, (In Russian),
W76-09818 9-18 5C

VASILENKO, I. Y.
Radiation Hazard of Iodine-129, (In Russian),
W76-09788 9-18 5B

VASILIU, S. G.
Hygienic Evaluation of Potatoes Grown in Soil Irrigated with Effluents from Coking and Chemical Plants of the Donets Coal Basin, (In Russian),
W76-12369 9-23 5C

VASQUEZ, M. A.
Vibrio Parahaemolyticus in Seawater Off the Pacific Coast of Panama,
W76-06252 9-13 2L

VASSILIADIS, P.
Isolation of Water Vibrios in Greece, (In French),
W76-09601 9-18 5A

VASSOILLE, R.
Ultrasonic Properties of Plastically Deformed Ice,
W76-05384 9-11 2C

VASTANO, A. C.
On Entrainment and Diffusion in a Gulf of Mexico Anticyclonic Ring,
W76-09723 9-18 2L

VASWANI, N. K.
Case Studies of Variations in Subgrade Moisture and Temperature Under Road Pavements in Virginia,
W76-12454 9-23 2C

VATOVA, A.
The Productivity of the Waters of Mar Grande and Mar Piccolo of Taranto (1962-1969), (In Italian),
W76-07947 9-15 2L

VATTUONE, G. M.
Cadmium Concentrations in Rock Scallops in Comparison with some other Species,
W76-12715 9-24 5C

VAUGHAN, C. M.
Reservoir Effects on Property Values According to Location and Rural VS. Urban Use,
W76-11708 9-22 4A

VAUGHAN, C. M.

VAUGHAN, D. A.
Environmental Assessment of Future Disposal Methods for Plastics in Municipal Solid Waste,
W76-02659 9-06 5E

VAUGHN, J. M.
Virus Survival Patterns in a Tertiary Sewage Treatment-Aquaculture Model System,
W76-10999 9-20 5D

VAUGHN, S. H.
Wastewater Treatment at Ford's Windsor Complex,
W76-02298 9-05 5D

VAUGHT, K.
Records of Wells, Drillers' Logs, Water-Level Measurements, and Chemical Analyses of Ground Water in Brazoria, Fort Bend, and Waller Counties, Texas, 1966-74,
W76-08569 9-16 4B

Records of Wells, Drillers' Logs, Water-Level Measurements, and Chemical Analyses of Ground Water in Chambers, Liberty, and Montgomery Counties, Texas, 1966-74,
W76-09144 9-17 7C

Records of Wells, Drillers' Logs, Water-Level Measurements, and Chemical Analyses of Ground Water in Harris and Galveston Counties, Texas, 1970-74,
W76-08570 9-16 4B

VAUGHT, K. D.
Water-Level Records for the Northern High Plains of Colorado, 1972-76,
W76-05420 9-11 7C

VAUX, H. J. JR.
The Economics of Geothermal Resources in the Imperial Valley: A Preliminary Analysis,
W76-03959 9-08 3E

VAUX, W. G.
Managing Industrial Waste Disposal,
W76-05310 9-11 5D

VECCHIOLI, J.
Hydrogeology Along the Proposed Barrier-Recharge-Well Alinement in Southern Nassau County, Long Island, New York,
W76-01184 9-03 4B

VEEDER, W. H.
Indian Prior and Paramount Rights Versus State Rights (Indian Water Rights),
W76-03588 9-08 6E

VEERANKUTTY, M. K.
Studies on a Well Penetrating a Two-Aquifer System,
W76-00401 9-01 8B

Transient Well-Flow in an Unconfined-Confined Aquifer System,
W76-00029 9-01 4B

VEIGA-PIRES, H.
Application of Factorial Analysis of Principal Components to the Control of Pollution of Surface Waters,
W76-05632 9-12 5B

Evaluation of Surface Water Pollution at Several Points in Relation to Zones of Shellfish Industry in Roadsteads of the Brest Region, (In French),
W76-06150 9-12 5B

VEITH, G. D.
Apparatus for Continuously Saturating Water with Hydrophobic Organic Chemicals,
W76-03047 9-07 5A

Baseline Concentrations of Polychlorinated Biphenyls and DDT in Lake Michigan Fish, 1971,
W76-08685 9-16 5A

VEKHOV, N. V.
Zooplankton of Lakes of the Bol'Shezemel-Skaya Tundra, (In Russian),
W76-11056 9-20 5C

Zooplankton of Small Lakes of the Eastern Part of the Bolshezemelskaya Tundra, (In Russian),
W76-07307 9-14 5C

VELA, G. R.
Effect of Temperature on Cannery Waste Oxidation,
W76-07662 9-15 5D

Microbiological Degradation of Phenol in the Effluent from a Wood Treatment Plant,
W76-07744 9-15 5D

VELA SALGADO, E. H.
Principal Economic Aspects of the Problem of Salinity of the Colorado River,
W76-05821 9-12 6E

VELCHEK, H. L.
Quality Control in Radiochemical Analysis,
W76-08609 9-16 5A

VELDRE, I. A.
Characteristics of the Toxic Effect of Propylphenol Isomers and their Safe Level in Water Bodies, (In Russian),
W76-12850 9-24 5C

VELIKANOV, G. A.
Study of Self-Diffusion of Water and its Activation Energy in Cells of Different Plant Tissues, (In Russian),
W76-08429 9-16 2I

VELNICH, A. J.
Flood of July 21, 1975 in Merger County, New Jersey,
W76-04986 9-10 2E

VEMURI, R.
Multiobjective Planning and Environmental Evaluation of Water Resource Systems,
W76-10610 9-20 6G

VENABLE, J. H.
Town Maintains Sewers Despite 'Sugar Sand',
W76-10687 9-20 5D

VENKATARAMAN, S.
Studies of Specific Capacities of Wells in Hard Rocks and Alluvial Formations of Mysore State,
W76-00485 9-01 4B

VENKATARAMANI, R.
Environmental Concerns and Decisions for the Mining Inudstry,
W76-04093 9-09 5G

VENKATESH, V.
System Analysis of Refiner Mill Operation,
W76-05487 9-11 5D

VENKATESWARA RAO, V.
Effect of Different Methods of Planting in Puddled Soil on the Yield of Rice,
W76-06017 9-12 3F

VENKATESWARLU, J.
The Physico-Chemical Changes of New Flooded Soils,
W76-07980 9-15 2

VENNES, J.
Infrared Dry Caustic Vs. Wet Caustic Peeli of White Potatoes,
W76-06652 9-13 5

VERCELLI, G. L.
Is the Separation of Sewers Desirable,
W76-09739 9-18 5

VERDIN, A.
Monitoring for Organic Pollutants in Gre Britain,
W76-11244 9-21 5

VERDUYN, G.
Automatic Determination of Sulfates by an I proved Nephelometric Method: Application the Determination of SO2 in Atmospheric A and of Sulfates in Rain Water, (In French),
W76-12259 9-23 5

VERENOVA, G. G.
Experience in the Sanitary Protection of Wat Bodies in a Raion of Moscow, (In Russian),
W76-03637 9-08 5

VERGER, F. H.
The Utilization of ERTS-1 Data for the Stu of the French Atlantic Littoral,
W76-02046 9-05

VERGHESE, K. I.
Utilization of Alumized Red Mud Solids (Arm For Phosphorus Removal,
W76-02520 9-06 5

VERHAGE, C.
Towards Optimal Decision Strategies f Redevelopment Programs: A Case Study,
W76-07140 9-14

VERHAGEN, B. TH.
Hot Springs of Rhodesia: Their Noble Gas Isotopic and Chemical Composition,
W76-06190 9-13 2

VERLEGER, P. K. JR.
The Use of Econometrics to Project Ener Demands,
W76-09611 9-18

VERMA, S. B.
Comparison of a Modified Brown-Rosenbe Resistance Model with other Evapotranspi tion Estimation Methods: Tests in an Irrigat Sorghum Field,
W76-08589 9-16

Great Plains Evapotranspiration by a R sistance Model Using Remotely Sensed Th mal Imagery,
W76-05179 9-11

Resistance-Energy Balance Method for Predi ing Evapotranspiration: Determination Boundary Layer Resistance and Evaluation Error Effects,
W76-08586 9-16

Resistance-Mass Transfer Method for Estim ing Evapotranspiration: Comparison w Lysimetric Measurements in Irrigat Sorghum,
W76-08588 9-16

ERMA, T. R.
Rehabilitation of Land Disturbed by Surface Mining Coal in Arizona,
W76-00709 9-02 5G

Strip Mining and Reclamation on the Black Mesa of Arizona,
W76-02670 9-06 5G

ERNBERG, F. J.
Synergistic Effects of Temperature and Other Environmental Parameters on Organisms,
W76-02007 9-05 5C

ERNBERG, W. B.
Synergistic Effects of Temperature and Other Environmental Parameters on Organisms,
W76-02007 9-05 5C

ERNEY, P. J.
Liquid Separating Equipment,
W76-04614 9-10 5G

ERPLANCK, E. L.
Considerations on the Effects of High Temperatures on Algae and Fishes, A Literature Review, 1954,
W76-10055 9-19 5C

ERPLANCKE, H.
Comparative Study in Measuring Fluid Surface Tension and Fluid Content with the Aid of Electrical Resistance Elements 'In Situ' and in the Laboratory, (In Flemish),
W76-09923 9-18 2G

The Relationship Between Heat Conductance and the Moisture Content of the Soil, (In Dutch),
W76-08769 9-17 2G

ERRETTE, J-L.
Principle of Management of Degenerated Inlets and Estuaries,
W76-09958 9-18 8B

ERRY, E. S.
Specific Conductance Identifies Perched and Ground Water Lakes,
W76-07023 9-14 2H

Streamflow Chemistry and Nutrient Yields from Upland Peatland Watersheds in Minnesota,
W76-07022 9-14 2K

ERSHININA, L. K.
Maximum Water Equivalents of Snow in the Northwestern Regions of the European USSR,
W76-06172 9-13 2C

Selection of Typical Small Drainage Basins for Investigating and Computing Spring Runoff from Large River Basins,
W76-10705 9-20 4A

ERSINO, C.
Representative Analytical Waste Water Samples. Note I--A New Sampler (Significativa di Campioni Analitici di Acque Reflue. Nota I -- Nuovo Dispositivo di Campionamento),
W76-09186 9-17 5A

ERSTRAETE, W.
Shifts in Microbial Groups of River Water Upon Passage Through Cooling Systems,
W76-00335 9-01 5C

EZIROGLU, T. N.
Application of Remote Sensing for Prediction and Detection of Thermal Pollution,
W76-02393 9-05 5A

Feasibility of Remote Sensing for Detecting Thermal Pollution--Part I: Feasibility Study; Part II: Implementation plan,
W76-01838 9-04 5A

VIAN ORTUNO, A.
Process for Treating Waste Waters from Alkaline Pulping (Procedes de traitement des eaux residuelles de fabrication des pates de cellulose par des methodes alcalines),
W76-12497 9-23 5D

VICENS, G. J.
Bayesian Generation of Synthetic Streamflows.
W76-05271 9-11 2A

FLOW2D: A Two-Dimensional Flow Model for Flood Plains and Estuaries,
W76-10454 9-19 2L

VICKERMAN, R. W.
The Evaluation of Benefits From Recreational Projects,
W76-06229 9-13 6B

VICUNA, F. O.
Regional Approaches to Law of the Sea: Latin America,
W76-07335 9-14 6E

VIDILLES, J.
Floating Containing Vessles or Dams for Trapping Liquid Pollutants,
W76-04274 9-09 5G

VIELKIND, D.
Computer-Aided Modelling of Stream Purification Capacity, Part I: Nonlinear DO Model,
W76-10024 9-19 5B

Computer-Aided Modelling of Stream Purification Capacity, Part II: Multiple Linear Correlation Method,
W76-10025 9-19 5B

VIETH, W.
Treatment of Synthetic Urinous Wastewater Using Combined Reverse Osmosis, Immobilized Urease, and Ion Exchange Systems,
W76-10254 9-19 5D

VIETS, F. G.
The Environmental Impact of Fertilizers,
W76-07100 9-14 5B

VIETS, F. G. JR.
Animal Wastes and Fertilizers as Potential Sources of Nitrate Pollution of Water,
W76-01377 9-03 5B

Pollution Abatement from Cattle Feedlots in Northeastern Colorado and Nebraska,
W76-02762 9-06 5D

VIGNEAUX, M.
The Budding Environmental Clean-Up (A Viewpoint): Part II. Clean Up, Costs and Growth,
W76-13098 9-24 5G

VIGREUX, B.
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W76-04182 9-09 5D

VIGUTOVA, A. YA.,
Effect of Irrigation on Some Physicochemical Properties of Ciscaucasian Chernozems of the Second Terrace of the Don River, (In Russian),
W76-03022 9-07 3C

VIJAYAM, B. E.
Optimum Design of Dug-Wells in Hard Rock Terrains,
W76-01892 9-04 8E

VIJAYAMADHAVAN, K. T.
Histochemical Observations on the Permeation of Heavy Metals into Taste Buds of Goldfish,
W76-00334 9-01 5A

VIJAYARAGHAVAN, S.
Seasonal Variation in Dissolved Carbohydrate (DCHO) Content in Three Freshwater Ponds,
W76-06117 9-12 2H

VIKLUND, H. I.
High Temperature Electrodialysis - Phase V,
W76-03148 9-07 3A

VILARS, J.
Water -- Unusual Raw Material at the Service of the Paper Industry (L'eau -- matiere premiere anormale au service du papetier),
W76-12484 9-23 3E

VILLARREAL, A. G.
On a Stochastic Model to Estimate Tsunami Risk,
W76-06189 9-13 2L

VILLENEUVE, J-P.
Analysis and Management of Water Distribution Systems,
W76-02718 9-06 4A

VINBERG, G. G.
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W76-11556 9-21 5C

Some General Relations Between the Biomass of Planktonic Filter Feeders and their Food, (In Russian),
W76-05326 9-11 5C

VINCENT, A.
Drilling Techniques in Ball Clays,
W76-00415 9-01 8C

VINCENT, C. L.
Design Wave Information for the Great Lakes, Report 1, Lake Erie,
W76-07473 9-15 2H

VIND, H. P.
Biodeterioration of Navy Insecticides in the Ocean,
W76-06219 9-13 5B

VINDYUKOV, P. M.
Sources of Contamination of Artesian Waters by Carcinogenic Hydrocarbons, (In Russian),
W76-05265 9-11 5B

VINOGRADOV, B. V.
Remote Determination of Soil Moisture by Aerospace Methods,
W76-04967 9-10 2G

VINOGRADOVA, G. V.
Composition and Concentration of Salts in Soil Solutions of the Murgab Oasis Desert-Meadow Soils Under Ancient Irrigation, (In Russian),
W76-02732 9-06 3C

VINSON, J. A.
An Improved Method for the Isolation of Phenols from Water,
W76-08026 9-15 5A

VINSON, T. S.
A Field Study on the Relationship of Temperature and Ice to Infiltration at a Spray Irrigation Facility,
W76-01810 9-04 2G

VIRARAGHAVAN, T.
Efficiency of a Septic Tile System,
W76-11631 9-22 5D

Septic Tank Efficiency,
W76-12640 9-23 5D

VIRKOLA, N.-E.
Position of a Calcium Bisulfite Pulp Mill Particularly with Respect to Intensified Environmental Protection Requirements (Die Position einer Kalziumbisulfitfabrik, besonders im Hinblick auf verschaerfte Umweltschutzforderungen),
W76-05722 9-12 5G

VIRMANI, S. M.
Climatic Water Balance at Hissar,
W76-06041 9-12 2B

VIROST, R. A.
Water Pollution Survey, Moody Air Force Base, Georgia,
W76-05076 9-11 5D

VISKANTA, R.
Laboratory Modeling of Thermal Structure in Stagnant Water,
W76-00199 9-01 2H

VISMAN, J.
Method and Apparatus for Centrifugally Separating Finely Divided Solids from Aqueous Suspensions Thereof,
W76-05543 9-12 5D

VISSCHER, H. B.
The Legal Requirement for the Assessment of Inadvertent Weather Modification - An Engineering Viewpoint,
W76-10912 9-20 3B

VISVALINGAM, M.
The Water Table and the Neutron Moisture Meter,
W76-04962 9-10 2G

VISWANATH, G. K.
Factors in the Purification of Flowing Sewage and Activated Sludge Process - Part 2,
W76-10513 9-20 5D

VISWANATH, S. G.
Titration of Antimony (III) with Cerium (IV) Sulphate and Diphenylamine and its Derivatives as Reversible Indicators,
W76-09040 9-17 5A

VISWANATHAN, C. V.
Factors in the Purification of Flowing Sewage and Activated Sludge Process, Part I,
W76-05795 9-12 5D

Factors in the Purification of Flowing Sewage and Activated Sludge Process - Part 2,
W76-10513 9-20 5D

VITALIS, E. A.
Ecologically Acceptable Method of Breaking Mineral Oil Emulsions-Suspensions,
W76-02775 9-06 5G

VITOLS, O. Y.
Some Causes of Anomalies in Oxygen Mass Transfer in Polluted Water, (In Russian),
W76-12265 9-23 5D

VITTETOE, G. C.
Management of Runoff Water in Relation to Feedlot Operations,
W76-07168 9-14 5D

VITYUK, D. M.
Suspended Matter and its Components in the Black Sea, (In Russian),
W76-06778 9-13 5B

VIUM, M. P.
River and Estuary Modeling with the Siva System,
W76-09982 9-18 2A

VLAHAKIS, J. G.
A Laboratory Study of RDX Adsorption by Carbon,
W76-00247 9-01 5D

VLAS, I.
Investigations on the Water Regime of the Main Soil Types of the Cris River Plain, (In Romanian),
W76-12856 9-24 2G

VLASOVA, L. P.
Hygienic Evaluation of an Epoxy Compound and the Possibility of its Use in Submersible Electric Pumps for Domestic Purposes, (In Russian),
W76-11528 9-21 5C

VLODAVETS, V. V.
Dynamics of the Purification of Domestic Fecal Sewage on Sewage Farms, (In Russian),
W76-07692 9-15 5D

VNUKOV, V. A.
Increase of Primary Production in a Bay of Malyi Zhemchuzhnyi Island (North Caspian) Using Inorganic Fertilizers, (In Russian),
W76-11553 9-21 5C

VODOGRETSKIY, V. YE.
Slope Runoff and Its Change Under the Effect of Agricultural and Forest Improvement Practices,
W76-05927 9-12 4C

VODOP'YAN, N. S.
Study of Algoflora of Contaminated Water Bodies, (In Ukranian),
W76-09093 9-17 5C

VODOPIANOVA, N. M.
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W76-05277 9-11 5D

VOEGELI, P. T.
Generalized Geologic Framework of the National Reactor Testing Station, Idaho,
W76-01191 9-03 8E

VOELZ, E.
Advantages of Numerical Atmospheric Dispersion Calculations for Estimating Dispersal and Combination Effects of Stack Releases from the Nuclear Industry,
W76-09501 9-18 5A

VOERMAN, G.
An In-Situ Study of the Sutrition of La
Zooplankton Using Carbon 14 a
Phosphorous 32, Flathead Lake, Montana,
W76-04231 9-09

VOETS, J. P.
Shifts in Microbial Groups of River Wat
Upon Passage Through Cooling Systems,
W76-00335 9-01

VOGEL, J. C.
Isotopic Composition of Groundwater in Sen
Arid Regions of Southern Africa,
W76-03130 9-07

Natural Isotopes in Surface and Groundwa
from Argentina,
W76-06185 9-13

VOGEL, J. L.
Hydrometeorology of Heavy Rainstorms
Chicago and Northeastern Illinois, Phase
Historical Studies,
W76-11875 9-22

VOGEL, R.
Model Ecosystem Studies of Lead and Cadm
um and of Urban Sewage Sludge Containi
These Elements,
W76-07013 9-14

VOGEL, W. G.
Requirements and Use of Fertilizer, Lime, a
Mulch for Vegetating Acid Mine Spoils,
W76-09469 9-18

VOGL, O.
New Polymers for Desalination Membranes,
W76-03258 9-07

VOGT, C.
Development Document for Effluent Limi
tions Guidelines and New Source Performan
Standards for the Unbleached Kraft a
Semichemical Pulp Segment of the Pulp, Pap
and Paperboard Mills Point Source Category,
W76-01212 9-03

VOHRA, K. G.
Synergistic Effects of Atmospheric Releases
Radioactive Gases and SO2 in Induci
Nucleation in the Atmosphere,
W76-09500 9-18

VOHRA, P.
Fluoride Tolerance of Japanese Quail,
W76-10120 9-19

VOIGHT, M.
Preliminary Laboratory Research in Expe
mental Brackish Ecosystems,
W76-01165 9-03

VOIT, K.
Apparatus, Installation, and Process for D
watering Clarified Sludges (Vorrichtun
Anordnung und Verfahren zur Entwaesseru
von Klaerschlaemmen),
W76-12503 9-23

VOITURIEZ, B.
Primary Production in the Mauritanian U
welling in March 1973, (In French),
W76-11555 9-21

VOKOUNOVA, E.
Decomposition of Nitrogenous Organic Su
stances in Surface Waters, (In Russian),
W76-07303 9-14

LCHENKO, V. N.
laximum Water Equivalents of Snow in the orthwestern Regions of the European USSR,
/76-06172 9-13 2C

LESKY, B.
acterial Degradation and Emulsification of o. 6 Fuel Oil,
/76-04060 9-09 5D

LK, B. G.
ase-Line Data on Everglades Soil-Plant ystems: Elemental Composition, Biomass, nd Soil Depth,
/76-10314 9-19 5C

isposal of Cattle Feedlot Waste in an Anaero- c Lagoon on the Organic Soils of South lorida--Preliminary Results,
/76-10540 9-20 5E

LKOV, A. A.
ternational-Legal Regulation of Marine isheries,
/76-12035 9-22 6E

LKOVA, E. K.
roductivity and Biochemical Composition of hlorella at Different Levels of Illumination nd Nitrogen Limitation,
/76-05640 9-12 5C

LLENWEIDER, R. A.
put-Output Models with Special Reference to e Phosphorus Loading Concept in Limnolo- ,
/76-05464 9-11 5C

LLNER, L.
egradation of Persistent Organochlorine Pol- tants by Gamma Radiation and its Possible se for Waste-Water Treatment,
/76-09534 9-18 5D

LLSTEDT, T. J.
ilter Cleaning Method,
/76-05974 9-12 5F

LZ, M. G.
itrate Reduction and Associated Microbial opulations in a Ponded Hanford Sandy Loam,
/76-08546 9-16 5G

N BODUNGEN, B.
he Plankton Tower. I. A Structure to Study /ater/Sediment Interactions in Enclosed /ater Columns,
/76-08446 9-16 5C

N BROCKEL, K.
he Plankton Tower. I. A Structure to Study /ater/Sediment Interactions in Enclosed /ater Columns,
/76-08446 9-16 5C

N BUCHSTAB, V.
overnment-Contractor-Engineer Liason that reates an Economical Project,
/76-06319 9-13 5F

N EUW, H. M.
ynergistic Effects of Airborne Emissions from uclear Power Plants,
/76-09503 9-18 5A

N JESZENSZKY, T.
ynamic Modelling and Control Simulation of Biological Wastewater Treatment Process,
/76-10018 9-19 5D

VON OERTZEN, J. A.
Benthogenic Phytodetritus in Eutrophic Coastal Waters as an Energy Source for Secondary Producers, (In German),
W76-10866 9-20 5C

VON RUMKER, R.
Production, Distribution, Use and Environmental Impact Potential of Selected Pesticides,
W76-02316 9-05 5C

VON WESTERNHAGEN, H.
Cadmium Uptake by Marine Fish Larvae,
W76-11184 9-21 5C

Combined Effects of Cadmium and Salinity on Development and Survival of Flounder Eggs,
W76-03768 9-08 5C

VONBODUNGEN, B.
The Plankton Tower. II. Release of Nutrients from Sediments Due to Changes in the Density of Bottom Water,
W76-08447 9-16 5C

VONBROCKEL, K.
The Plankton Tower. II. Release of Nutrients from Sediments Due to Changes in the Density of Bottom Water,
W76-08447 9-16 5C

VONDER HAAR, T. H.
Satellite Support to the Hiplex Activities for 1975,
W76-06613 9-13 3B

VONHOF, J. A.
Subsurface Disposal of Liquid Industrial Wastes,
W76-05573 9-12 5B

VONIC, M.
This Plant Can Use 5 Sludge Processes,
W76-05798 9-12 5D

VONNEGUT, B.
Detachment of Pendant Water Drops by High Voltage Pulses,
W76-05917 9-12 2B

VOOGT, J.
Experiences with Mathematical Models Used for Water Quality and Quantity Problems,
W76-12548 9-23 6A

Hydrodynamic Transport Phenomena in Estuaries and Coastal Waters: Scope of Mathematical Models,
W76-09980 9-18 5B

VOORHEES, W. B.
Soybean and Corn Rooting in Southwestern Minnesota: I. Water-Uptake Sink,
W76-02403 9-05 3F

Soybean and Corn Rooting in Southwestern Minnesota: II. Root Distributions and Related Water Inflow,
W76-01528 9-04 2D

VOOS, K. A.
The Effects of Media Modifications upon Selenastrum Capricornutum in Batch Cultures,
W76-06706 9-13 5C

VORA, A. B.
Effect of Low Moisture Level on Catalase Activity in Some Crop Plants During Juvenile Phase,
W76-10178 9-19 2I

VORCHHEIMER, N.
Water-Soluble Cationic Polymeric Materials and their Use,
W76-10964 9-20 5D

VOROB'EV, V. I.
Content of Some Trace Elements in Macrophytes of the Volga Delta, (In Russian),
W76-13194 9-24 5A

VOROB'EVA, E. I.
Content of Heterotrophic Microorganisms in Water of Lake Baikal, (In Russian),
W76-07302 9-14 5C

VOROB'EVA, N. M.
Hygienic Evaluation of Potatoes Grown in Soil Irrigated with Effluents from Coking and Chemical Plants of the Donets Coal Basin, (In Russian),
W76-12369 9-23 5C

VOROBETS, V. I.
Hygienic Evaluation of an Epoxy Compound and the Possibility of its Use in Submersible Electric Pumps for Domestic Purposes, (In Russian),
W76-11528 9-21 5C

VOROBEVA, L. M.
Light-Induced Transformations of the Pigment Complex in Anacystis Nidulans,
W76-05479 9-11 5C

VOROBIOVA, G. A.
Extraction of Metals by Neutral Sulfur-Containing Extractants, Part I, O-Isopropyl-N-Ethylthiocarbamate,
W76-03641 9-08 5A

VORONOV, J. V.
Process for Purification of Industrial Waste Waters from Perchlorates and Chlorates,
W76-08395 9-16 5D

VORONOV, YU. V.
Biological Filters (Biologicheskie fil'try),
W76-10850 9-20 5D

VORONOVA, I. A.
Determination of the Conditions of Discharge of Sewage into Waters, (In Russian),
W76-12266 9-23 5G

VOS, A.
Pelagic Tar in the Gulf of Mexico and Caribbean Sea,
W76-10409 9-19 5B

VOS, J.
Investigation of Some Physical Properties of the Soils in the Dalmaj Pilot Project Area,
W76-06579 9-13 2G

VOSS, R. D.
Agronomic Considerations of Animal Waste Disposal,
W76-03987 9-08 5B

VRANOVSKY, M.
Contribution to the Knowledge of the Distribution, Biomass and Drift of the Zooplankton in the Czechoslovak-Hungarian Stretch of the Danube, (In German),
W76-07306 9-14 5C

VREELAND, V.
Uptake, Translocation and Elimination of Individual Chlorobiophenyls by Oysters,
W76-11000 9-20 5C

VREELAND, W. C.
Coating Reclaim at Consolidated Papers, Inc., Wisconsin Rapids Division,
W76-01668 9-04 5D

VRENGDENHIL, C. B.
Hydrodynamic Transport Phenomena in Estuaries and Coastal Waters: Scope of Mathematical Models,
W76-09980 9-18 5B

VREUGDENHIL, C. B.
Experiences with Mathematical Models Used for Water Quality and Quantity Problems,
W76-12548 9-23 6A

VULJAMAA, H.
Inshore Effect of Pollution on the Biota of the Baltic, Southern Finland,
W76-08791 9-17 5C

VYAS, A. V.
Effect of Low Moisture Level on Catalase Activity in Some Crop Plants During Juvenile Phase,
W76-10178 9-19 2I

VYAS, Y. K.
Wave Motions in an Offshore Harbor,
W76-09947 9-18 8B

VYSHKVARTSEV, D. E.
Studies of Mineral Phosphate Consumption by a Tropical Water Planktonic Community, (In Russian),
W76-12308 9-23 5C

VYSOTSKY, A. F.
Freedom of Scientific Research in the World Ocean,
W76-12013 9-22 6E

WADDELL, K. M.
Chemical Quality and Temperature of Water in Flaming Gorge Reservoir, Wyoming and Utah, and the Effect on the Reservoir on the Green River,
W76-05417 9-11 2H

Water-Resources Investigations of the U.S. Geological Survey in Selected Coal-Energy Areas of Utah,
W76-09148 9-17 4B

WADDY, S. L.
Temperature Increase Can Cause Hyperecdysonism in American Lobsters (Homarus Americanus) Injected with Ecdysterone,
W76-03046 9-07 5C

WADE, R.
Water to the Fields: India's Changing Strategy,
W76-10589 9-20 3F

WADE, T. L.
Hydrocarbons in the Sargasso Sea Surface Microlayer,
W76-11710 9-22 5B

WADHAMS, P.
Airborne Laser Profiling of Swell in an Open Ice Field,
W76-04695 9-10 2C

WAFF, W. B.
Development of a Water Quality Instrumentation Package for Long-Term Operation from Buoys and Other Unattended Marine Platforms,
W76-09372 9-17 5G

WAGENET, R. J.
An Evaluation of the Accumulation, Translocation, and Degradation of Pesticides at Land Wastewater Disposal Sites,
W76-03871 9-08 5B

WAGNER, D. M.
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W76-12377 9-23 5A

WAGNER, F. J. E.
Occurrence of Foraminifera, Molluscs and Ostracods Adjacent to the Industrialized Shoreline of Canso Strait, Nova Scotia,
W76-07621 9-15 5C

WAGNER, G. H.
Sodium, Potassium, Calcium and Magnesium Content of Northwest Arkansas Rain Water in 1973,
W76-06379 9-13 2B

Trace Element Composition of Stream Sediments, An Integrating Factor for Water Quality,
W76-00377 9-01 5A

WAGNER, J. H.
Development of an Experimental Hydrometeorological Data Collection Network,
W76-06606 9-13 2B

Development of an Experimental Hydrometeorological Data Collection Network,
W76-08694 9-16 2B

WAGNER, J. P.
Environmental Protection in California: Court Action Powers of State and Local Government Attorneys,
W76-05189 9-11 6G

WAGNER, R.
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W76-03241 9-07 5A

Phosphate Dependent Flocculant Dosage at Phosphorus Elimination From Communal Waste Water (Die Phosphatfracht-Abhaengige Faelimittel-Dosierung Bei Der Phosphor-Elimination Aus Kommunalem Abwasser),
W76-01446 9-03 5D

Reaction of Non-Cyanidic Metal Complexes to Conventional Decontamination of Waste Water From Electro-Plating (Das Verhalten Nicht-Cyanidischer Metallkomplexe Bei Der Herkoemmlichen Entgiftung Von Galvanikabwaessern),
W76-02347 9-05 5D

WAGONER, E.
Harris-Galveston Subsidence District Created to 'End' Subsidence,
W76-11919 9-22 4B

WAHIDIECK, N. P.
Warm Sludge Digestion with Oxygen,
W76-05026 9-11 5D

WAHLGREN, M. A.
The Chemical Speciation of PU-239, PU-240 and CS-137 in Lake Michigan Waters,
W76-05889 9-12 5B

Effect of Municipal Treatment Processes
PU-239, PU-240, and CS-137,
W76-05890 9-12

Plutonium and Americium in Lake Michig
Sediments,
W76-08606 9-16

Sedimentary Pu-239, Pu-240 Phase Distrib
tions in Lake Michigan Sediments,
W76-05891 9-12

Studies of Plutonium Cycling and Sediment
tion in Lake Michigan,
W76-11292 9-21

Study of the Behaviour of Transuranics a
Possible Chemical Homologues in La
Michigan Water and Biota,
W76-08598 9-16

WAID, J. S.
Microorganisms and Sulphide in a Pollut
Estuary,
W76-06121 9-12

WAIDE, J. B.
Fallout Cesium-137 and Mineral-Element D
tribution in Food Chains of Granitic-Outcr
Ecosystems,
W76-10307 9-19

Nutrient Recycling and the Stability
Ecosystems,
W76-10267 9-19

A Preliminary Compartment Model of t
Nitrogen Cycle in a Deciduous For
Ecosystem,
W76-10269 9-19

WAIDER, J. B.
Significance of Biological Nitrogen Fixati
and Denitrification in a Deciduous For
Ecosystem,
W76-10320 9-19

WAISS, A. C. JR
Removing Heavy Metal Ions from Water,
W76-04610 9-10

Removing Heavy Metal Ions from Water,
W76-08401 9-16

WAITERS, E. M.
Possible Influence of Atmospheric Transp
on the Total Mercury Content of Southeaste
Atlantic Continental Shelf Surface Waters,
W76-09224 9-17

WAKAMATSU, T.
Behavior of Hydrogen and Hydroxyl Ions
the Oxide-Water Interface,
W76-10633 9-20

WAKEMAN, T.
Effects of Suspended Solids Associated w
Dredging Operations on Estuarine Organisms
W76-03645 9-08

WAKHLU, O. N.
A Dimensionless Number for the Study
Open Channel Flow,
W76-04303 9-09

WAKI, S.
Waste Water Treating Operation Usi
Microbial Membrane (I). Analysis of R
sistance to Movement within Liquid Phase,
W76-03230 9-07

AKIMOTO, T.
Gas Chromatographic (ECD) Deterimination of Coprostanol and Cholesterol as Indicators of Fecal Pollution in Water, (In Japanese),
W76-00602 9-02 5A

AKITA, H.
Water Wells as Possible Indicators of Tectonic Strain,
W76-10105 9-19 8G

ALD, A. R.
Hydrologic Data Summary: Clearwater River Basin, Water Year 1973-1974,
W76-04019 9-09 4C

ALDEN, C. C.
Detoxification of Bleached Kraft Mill Effluents,
W76-08461 9-16 5D

Detoxification of Bleached Kraft Mill Effluents,
W76-10867 9-20 5D

Effect of Temperature and Sludge Loading on BOD5 Removal and Sludge Settleability in Activated Sludge Systems Treating Bleached Kraft Effluents,
W76-05105 9-11 5D

Effects of Color and Toxic Constituents of Bleached Kraft Mill Effluent on Algal Growth,
W76-09300 9-17 5C

Foam Detoxification of Bleached Kraft Effluent,
W76-08460 9-16 5D

Foam Separation for Detoxification of Bleached Kraft Mill Effluents,
W76-10855 9-20 5D

Toxicity: Research and Regulation,
W76-11374 9-21 5C

Ultimate Disposal of Biological Sludges -- A Novel Concept,
W76-12481 9-23 5E

VALDING, C. D.
Flocculation of Wastewater with Polyelectrolytes and Ferric Chloride,
W76-11520 9-21 5D

VALDRIP, D. B.
The Effect of Sanitary Landfills on Water Quality in Southern Indiana,
W76-03851 9-08 5B

VALDROP, W. R.
Development of a Three-Dimensional Time-Dependent Flow Field Model,
W76-08328 9-16 2L

VALDVOGEL, B.
Qualitative and Quantitative Salmonella Investigations and their Hygienic Valuation in Connection with E. Coli Titre, Demonstrated with Examples from the Coastal Waters of Kiel Bight (Western Baltic Sea), (In German),
W76-13140 9-24 5A

VALES, R. W.
Interlaboratory Quality Control Study No. 4, Arsenic, Cadmium, Cobalt, Mercury and Nickel,
W76-10495 9-19 5A

Interlaboratory Quality Control Study No. 5, Chromium, Iron, Molybdenum and Vanadium,
W76-10493 9-19 5A

WALFORD, M. E. R.
The Movement of Melting Ice over Rough Surfaces,
W76-05671 9-12 2C

WALI, M. K.
Comparative Studies of Some Inland Saline Aquatic Ecosystems in North Dakota,
W76-06805 9-14 5A

WALIN, G.
Some Exploratory Experiments with a New Type of Rotating, Differentially-Heated Fluid Annulus,
W76-04970 9-10 2B

Some Observations of the Deep Flow in the Bornholm Strait During the Period June 1973-December 1974,
W76-07557 9-15 2L

WALKER, A.
A Simulation Model for Prediction of Herbicide Persistence,
W76-00730 9-02 5B

WALKER, A. L.
Identification of Hydrocarbons in an Extract from Estuarine Water Accomodated No. 2 Fuel Oil,
W76-10397 9-19 5A

WALKER, G.
Zinc Phosphate Granules in Tissue Surrounding the Midgut of the Barnacle Balanus Balanoides,
W76-10057 9-19 5C

WALKER, H. J.
Changes Occurring in the Oceanic Portion of the Colville River Delta, Alaska, During Spring Flooding,
W76-12997 9-24 2C

The Colville River and the Beaufort Sea: Some Interactions,
W76-11767 9-22 2L

Morphology of an Arctic River Bar,
W76-01319 9-03 2C

Riverbank Forms of the Colville River Delta,
W76-11769 9-22 2L

WALKER, J. D.
Deep-Sea Bacteria: Growth and Utilization of Hydrocarbons at Ambient and in Situ Pressure,
W76-10349 9-19 5B

Effect of South Louisiana Crude Oil and No. 2 Fuel Oil on Growth of Heterotrophic Microorganisms, Including Proteolytic, Lipolytic, Chitinolytic and Cellulolytic Bacteria,
W76-03054 9-07 5C

Effects of Petroleum on Estuarine Bacteria,
W76-11814 9-22 5C

Important Considerations in Designing Activated Sludge Processes,
W76-10227 9-19 5D

Microbial Degradation of Model Petroleum at Low Temperatures,
W76-09648 9-18 5C

Microbial Ecology of Petroleum Utilization in Chesapeake Bay,
W76-09319 9-17 5C

Microbial Petroleum Degradation: The Role of Cladosporium Resinae,
W76-09327 9-17 5C

Microbial Petroleum Degradation: Use of Mixed Hydrocarbon Substrates,
W76-10350 9-19 5B

Petroleum Hydrocarbons: Degradation and Growth Potential for Atlantic Ocean Sediment Bacteria,
W76-10068 9-19 5C

WALKER, J. F.
Wastes from the Malting and Brewing Industry,
W76-01646 9-04 5D

WALKER, J. M.
Trench Incorporation of Sewage Sludge in Marginal Agricultural Land,
W76-02072 9-05 5D

WALKER, J. R.
Wave Transformations Over a Sloping Bottom and Over a Three-Dimenstional Shoal,
W76-03421 9-07 2L

WALKER, K. F.
Seasonal Dynamics and Productivity of Tanytarsus Barbitarsis Freeman (Diptera:Chironomidae) in the Benthos of a Shallow, Saline Lake,
W76-06142 9-12 5C

WALKER, W. N.
Are Drillers Legally Responsible for Ground Water Pollution,
W76-00386 9-01 5G

WALKER, W. R.
Legal Constraints on the Use of Wastewater for Food and Fiber,
W76-03562 9-08 6E

Legal Controls for Protecting Underground Sources of Drinking Water,
W76-03435 9-07 5F

Private Constraints on Ground-Water Contamination,
W76-03244 9-07 4B

Salinity Policy for Colorado River Basin,
W76-00553 9-02 5G

Salinity Policy for Colorado River Basin,
W76-01126 9-03 5G

Ultimate Disposal by Means of Deep Well Injection: A Legal View,
W76-03839 9-08 5E

Water Rights and Water Quality Management,
W76-01001 9-03 5G

WALKER, W. W.
Chemical and Microbiological Degradation of Malathion and Parathion in an Estuarine Environment,
W76-12437 9-23 5B

WALL, G. J.
Biological Transformation of Clay-Sized Sediments in Simulated Aquatic Environments,
W76-11291 9-21 2J

Mineralogy and Related Parameters of Fluvial Suspended Sediments in Northwestern Ohio,
W76-12203 9-23 2J

WALL, G. R.
Two Decades of Flood-Plain Management: The TVA Regional Experience,
W76-03271 9-07 6F

WALL, J. P.
Lake Classification--A Trophic Characterization of Wisconsin Lakes,
W76-02764 9-06 2H

Nutrient Assessments as a Basis for Lake Management Priorities,
W76-06704 9-13 5C

WALL, J. R.
Summary Appraisals of the Nation's Ground-Water Resources--Texas-Gulf Region,
W76-08051 9-15 2F

WALLACE, A.
Contribution of Salts to the Water Potential of Woody Plants,
W76-09691 9-18 3C

Different Levels of Soil Organic Matter in Desert Soil and Nitrogen Fertilizer on Yields and Mineral Composition of Barley Grown in the Soil,
W76-10170 9-19 3F

Mobilization of Nutrients in Soil by Acids of Sulfur and Chelating Agents,
W76-10316 9-19 5B

Nitrogen-Silicon Interaction in Plants Grown in Desert Soil with Nitrogen Deficiency,
W76-11509 9-21 3F

Quantitative Studies of Roots of Perennial Plants in the Mojave Desert,
W76-02531 9-06 2I

Sodium Relations in Desert Plants: 3. Cation-Anion Relationships in Three Species Which Accumulate High Levels of Cations in Leaves,
W76-02158 9-05 3C

Sodium Relations in Desert Plants: 4. Some Physiological Responses of Atriplex Confertifolia to Different Levels of Sodium Chloride,
W76-02968 9-06 3C

WALLACE, D. C.
Diel Changes in the Feeding Activity and Food Habits of the Spotfin Shiner, Notropis Spilopterus (Cope),
W76-10816 9-20 2I

WALLACE, D. E.
Time-Related Changes in Water Quality of Stock Tanks of Southeastern Arizona,
W76-02233 9-05 5B

WALLACE, D. N.
A Critical Comparison of the Biological Assumptions of Hudson River Striped Bass Models and Field Survey Data,
W76-03771 9-08 5C

WALLACE, J. B.
Mineral Pathways in Small Appalachian Streams,
W76-10291 9-19 5B

WALLACE, J. C.
Man Discovers the Coastal Environment: A Footprint in the Sand,
W76-11621 9-21 5D

WALLACE, J. H.
Biological Survey of the Savannah River in the Vicinity of the Savannah River Project, Part II - Report on Work Done and Tentative Conclusions on the Fall Survey,
W76-10042 9-19 5C

Biological Survey of the Savannah River in the Vicinity of the Savannah River Project. Part III - Report on the Work Done and Tentative Conclusions on the Winter Survey,
W76-10043 9-19 5C

WALLACE, J. T.
UHR Filters Treating Mill Wastewaters,
W76-02434 9-05 5D

WALLACE, N. M.
Considerations on the Effects of High Temperatures on Algae and Fishes, A Literature Review, 1954,
W76-10055 9-19 5C

WALLACE, R. M.
Removal of Cesium from Savannah River Plant Waste Supernate,
W76-07479 9-15 5D

WALLACE, R. R.
The Catastrophic Drift of Stream Insects After Treatments with Methoxychlor (1,1,1-Trichloro-2,2-Bis(p-Methoxyphenyl) ethane),
W76-00327 9-01 5B

WALLEN, G. H.
Some Chronic Effects of 2,4,-D on the Bluegill, (Lepomis Macrochirus),
W76-04923 9-10 5C

WALLEN, I. E.
Monitoring: The Trigger for Action,
W76-10640 9-20 5A

WALLENTINUS, H. -G.
Above Ground Production and Chemical Analysis of Phragmites Communis in Polluted Brackish Water,
W76-01943 9-04 5C

WALLER, B. G.
Analysis of Selected Benthic Communities in the Florida Everglades with Reference to their Physical and Chemical Environment,
W76-11418 9-21 5A

Water-Quality Data for Canals in Eastern Broward County, Florida, 1969-1974,
W76-11081 9-20 7C

WALLER, B. J.
Plutonium Distribution in Lake Michigan Biota,
W76-11287 9-21 2H

WALLER, D. H.
Urban Drainage - Problems and Possibilities,
W76-11648 9-22 5D

WALLER, R. M.
Water Resources of the Black River Basin, New York,
W76-04982 9-10 4A

WALLER, R. S.
Phase IV: Biology,
W76-09242 9-17 2L

WALLER, T. H.
Temporal Changes in the Offshore Islands of Mississippi,
W76-11905 9-22 2J

WALLER, W. T.
The Effects of Power Plant Condenser Cooling Water Entrainment on the Amphipod, Gammarus SP.,
W76-12768 9-24 5C

Entrainment Studies on Hudson River Organisms,
W76-08633 9-16 5C

A Laboratory Study on the Effects of the E
posure of Some Entrainable Hudson Riv
Biota to Hydrostatic Pressure Regimes Calc
lated for the Proposed Cornwall Pump
Storage Plant,
W76-07496 9-15

WALLEY, W. W.
Total Alkalinity and Hardness of Surfa
Waters in Alabama and Mississippi,
W76-01144 9-03

WALLIN, G.
Deciduous Woodlands In Sjuharadsbygden (
Swedish),
W76-03300 9-07

WALLING, D. E.
Variations in the Natural chemical Concent
tion of River Water During Flood Flows, a
the Lag Effect: Some Further Comments,
W76-02916 9-06

WALLINGFORD, G. W.
Effects of Application Rate in Direct La
Disposal of Animal Wastes,
W76-00443 9-01

Present Knowledge on the Effects of Land A
plication of Animal Waste,
W76-07199 9-14

Use of Cattle Feedlot Runoff in Crop Produ
tion,
W76-03559 9-08

WALLIS, C.
Environmental Factors Influencing Isolation
Enteroviruses from Polluted Surface Waters,
W76-12171 9-23

Fate of Wastewater Bacteria and Virsuses
Soil,
W76-03251 9-07

Sterilization of Holding Tanks and Toilet Bow
by Quaternary Compounds,
W76-08201 9-16

Virus Removal and Inactivation by Physic
Chemical Waste Treatment,
W76-07999 9-15

Viruses in Water: The Problem, Some Sol
tions,
W76-07006 9-14

Wastewater Renovation and Reuse: Vir
Removal by Soil Filtration,
W76-10219 9-19

WALLIS, I. G.
Classification of Models of Tidal Waters,
W76-01481 9-03

Classification of Models to Tidal Waters,
W76-01780 9-04

Rationale for a Water Pollution Code (Part I
Social Assessment,
W76-10592 9-20

Rationale for a Water Pollution Code Part
The Waste System and the Natural System,
W76-08839 9-17

Review of Models of Tidal Waters,
W76-02689 9-06

Review of the Models of Tidal Waters,
W76-03798 9-08

ALLIS, J. R.
Comment Upon Multivariate Synthetic Hydrology,
W76-05909 9-12 2A

Effect of Sequence Length n on the Choice of Assumed Distribution of Floods,
W76-09851 9-18 4A

On the Value of Information to Flood Frequency Analysis,
W76-02952 9-06 4A

Regional Skew in Search of a Parent,
W76-03899 9-08 2E

Statistics of Data Transfer,
W76-09133 9-17 4A

ALLMO, O. C.
Carbon Black Increases Snowmelt and Forage Availability On Deer Winter Range in Colorado,
W76-02518 9-06 3B

ALLS, J. S.
Protecting Groundwater from Landfill Leachate,
W76-05599 9-12 5G

ALLSTEN, M.
Vegetation in Lake Tamnaren: Interpretation of Aerial Photos and Description of the Vegetation, (In Swedish),
W76-06781 9-13 2H

ALRATH, D.
Aquiculture - New Broom Cleans up Wastewater,
W76-10180 9-19 5G

ALRAVEN, G. O.
Process Water Reuse and Control at an NSSC Mill,
W76-02302 9-05 5D

Process Water Reuse and Upset Control Modification at an Integrated NSSC Mill,
W76-02356 9-05 5D

ALSH, F.
Mine Drainage Pollution Reduction by Inhibition of Iron Bacteria.
W76-03314 9-07 5G

ALSH, J. T.
Abatement of Nitrobodies in Aqueous Effluents From TNT Production and Finishing Plants,
W76-02442 9-05 5D

ALSH, L. M.
Manage Manure for Its Value,
W76-03969 9-08 5E

Sources and Fate of 'Available' Nitrogen in Rural Ecosystems,
W76-01031 9-03 5B

ALSH, P. D.
Investigations into the Yield of an Existing Surface Reservoir and Aquifer System,
W76-09631 9-18 3B

ALSH, T.
Design and Performance of Physical-Chemical and Activated Sludge Treatment for an Edible Oil Plant,
W76-08293 9-16 5D

ALSKI, T. M.
Mathematical Model Simplifies Design of Sludge Drying Beds,
W76-10035 9-19 5D

WALSTON, R. E.
State Regulation of Federal Water Appropriations: The Calfornia Experience,
W76-05192 9-11 6E

WALTEMYER, D. L.
The Effect of Tannin on the Motility of Walleye (Stizostedion Vitreum) Spermatozoa,
W76-03773 9-08 5C

WALTER, C. E.
Alarm Systems Provide Low Cost Environmental Protection,
W76-01795 9-04 5D

WALTER, C. M.
Progress Report: Blue Springs Lagoon Study, Blue Springs, Missouri,
W76-05323 9-11 5D

WALTER, C. R.
Brooklyn Plant Meets Major Challenges,
W76-05768 9-12 5D

Financing and Charges for Wastewater Systems: Activities of the Joint WPCF/ASCE/APWA Committee,
W76-07689 9-15 5G

WALTER, J. N.
Grass Filtration for Final Treatment of Wastewater,
W76-03558 9-08 5D

WALTER, M. F.
Evaluation of a Soil Nitrate Transport Model,
W76-07453 9-15 5B

A Review and Analysis of Selected Hydrologic Modeling Concepts,
W76-09718 9-18 2E

WALTER-OFFENHAUER, R.
Sanitary-Virological Study of Surface Waters, (In Russian),
W76-02221 9-05 5C

WALTER, R. H.
Reduction in Oxygen Demand of Abattoir Effluent by Precipitation with Metal,
W76-08169 9-16 5D

WALTERS, C. J.
A Procedure for Estimating Gross Production, Net Production, and Algal Carbon Content Using 14C,
W76-12944 9-24 5C

WALTERS, L. J. JR.
Mercury Occurrence in Sediment Cores from Western Lake Erie,
W76-06137 9-12 5B

Occurrence of As, Cd, Co, Cr, Cu, Fe, Hg, Ni, Sb, and Zn in Lake Erie Sediments,
W76-11293 9-21 5B

Pollutant Mercury and Sedimentation in the Western Basin of Lake Erie,
W76-11294 9-21 5B

WALTHER, H-J.
Investigations on the Biological Digestion of Evaporation Condensates Generated in Sulfite Pulp Production (Untersuchungen Ueber die Moeglichkeit der Biochemischen Reinigung des bei der Sulfitzellstoffherstellung Anfallenden Eindampfkondensates),
W76-04192 9-09 5D

WALTNER, E.
Avert Runoff Pollution,
W76-01025 9-03 5D

WALTNER, W.
Avert Runoff Pollution,
W76-01025 9-03 5D

WALZ, J. A.
Baselines,
W76-07829 9-15 6E

Conclusion,
W76-07842 9-15 6E

The Contiguous Zone,
W76-07831 9-15 6E

The Deep Sea-Bed,
W76-07834 9-15 6E

Marine Scientific Research and the Transfer of Technology,
W76-07839 9-15 6E

Settlement of Disputes,
W76-07840 9-15 6E

The Territorial Sea,
W76-07830 9-15 6E

WALZ, N.
Studies on the Biology of Dreissena Polymorpha Pallas in Lake Constance, (In German),
W76-07400 9-14 5C

WALZER, N.
Flood Hazard Patterns of Urban Development in the Upper Midwest,
W76-03627 9-08 4A

WAN, W. C.
Characteristics of a Circular Jump in a Radial Wall Jet,
W76-01267 9-03 8B

WANG, A-Y
Analysis of Models for Commercial Fishing: Mathematical and Economical Aspects,
W76-08078 9-15 6C

WANG, F. F. H.
Mercury Distribution in Ancient and Modern Sediment of Northeastern Bering Sea,
W76-01586 9-04 5B

WANG, H.
Computer Simulation of Beach Erosion and Profile Modification Due to Waves,
W76-10448 9-19 2L

Monitoring Estuarine Circulation and Ocean Waste Dispersion Using an Integrated Satellite-Aircraft-Drogue Approach,
W76-10671 9-20 5A

WANG, J.
Lysimeter Studies with Long Term Application of Swine Lagoon Effluent,
W76-11055 9-20 5B

Two-Dimensional Finite Element Dispersion Model,
W76-10453 9-19 5B

WANG, J. R.
Results of Soil Moisture Flights During April 1974,
W76-13178 9-24 2G

WANG, L. K.
Computer-Aided Analysis of Environmental Data, Part I: Linear Regression, Precision and Accuracy,
W76-10022 9-19 5A

WANG, L. K.

Computer-Aided Analysis of Environmental Data, Part II: Biochemical Oxygen Demand Model,
W76-10023 9-19 5A

Computer-Aided Modelling of Stream Purification Capacity, Part I: Nonlinear DO Model,
W76-10024 9-19 5B

Computer-Aided Modelling of Stream Purification Capacity, Part II: Multiple Linear Correlation Method,
W76-10025 9-19 5B

Kinetics and Control Tests of Nitrification-Denitrication Process, Part I: Kinetics,
W76-09365 9-17 5D

Kinetics and Control Tests of Nitrification-Denitrification Process, Part II: Respiration and Control Tests,
W76-09366 9-17 5D

Sources of Pollution From Military Installations, Part II,
W76-01763 9-04 5B

Thickening of Sewage Sludge with Quaternary Ammonium Compounds and Magnetic Fields,
W76-11266 9-21 5D

WANG, M. C.
Movement of Trace Metals with Percolating Water,
W76-00374 9-01 5B

WANG, M. H.
Computer-Aided Analysis of Environmental Data, Part I: Linear Regression, Precision and Accuracy,
W76-10022 9-19 5A

Computer-Aided Analysis of Environmental Data, Part II: Biochemical Oxygen Demand Model,
W76-10023 9-19 5A

Computer-Aided Modelling of Stream Purification Capacity, Part I: Nonlinear DO Model,
W76-10024 9-19 5B

Computer-Aided Modelling of Stream Purification Capacity, Part II: Multiple Linear Correlation Method,
W76-10025 9-19 5B

Kinetics and Control Tests of Nitrification-Denitrication Process, Part I: Kinetics,
W76-09365 9-17 5D

Thickening of Sewage Sludge with Quaternary Ammonium Compounds and Magnetic Fields,
W76-11266 9-21 5D

WANG, S.
Treatment of Synthetic Urinous Wastewater Using Combined Reverse Osmosis, Immobilized Urease, and Ion Exchange Systems,
W76-10254 9-19 5D

WANG, T. P.
A Laboratory Investigation of the Mechanics and Hydraulics of River Ice Jams,
W76-10714 9-20 2C

WANG, W-C.
Chemistry of Mud-Water Interface in an Impoundment,
W76-05630 9-12 5C

Chemistry of Mun-Water Interface in an Impoundment,
W76-01304 9-03 2K

WANSON, W. W.
Studies on Helminths of North Dakota: V. Life History of Phyllodistomum Nocomis Fischthal, 1942 (Trematoda:Gorgoderidae),
W76-12912 9-24 2I

WAPNER, M.
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W76-05863 9-12 5C

WARD, A. K.
Sodium: A Factor in Growth of Blue-Green Algae,
W76-01156 9-03 5C

WARD, D. V.
Interactive Effects of Predation Pressure and Insecticide (Temefos) Toxicity on Populations of the Marsh Fiddler Crab Uca Pugnax,
W76-09114 9-17 5C

WARD, J. V.
A Temperature-Stressed Stream Ecosystem Below a Hypolimnial Release Mountain Reservoir,
W76-06743 9-13 5C

WARD, P.
Frequency Distributions for Coliform Bacteria in Water,
W76-10650 9-20 5A

WARD, P. E.
Ground Water Development and Potential in Wadis Khulays and Fatimah, Saudi Arabia,
W76-05419 9-11 4B

WARD, P. S.
Carcinogens Complicate Chlorine Question,
W76-00946 9-02 5B

WARD, R. C.
On Land Disposal of Liquid Organic Wastes Through Continuous Subsurface Injection,
W76-07203 9-14 5D

Surveillance in Water Quality Management,
W76-12148 9-22 5G

WARD, T. D.
Sludge Control and Decant System,
W76-09419 9-18 5D

WARD, W. E.
Land Spreading of Industrial Waste Water and the Effluent from a Secondary Treatment Facility,
W76-03350 9-07 5D

WARDLAW, R. E.
Common Law Remedies for Salt Pollution,
W76-05191 9-11 6E

WAREN, F. A. O.
Apparatus for the Collection of Buoyant Foreign Matter,
W76-05534 9-12 5G

WARFEL, S. W.
Emerging Ocean Oil and Mining Law,
W76-05207 9-11 6E

WARG, J. B.
Up-Dip Versus Down-Dip Mining, An Evaluation,
W76-01868 9-04 5G

WARING, R. H.
Coupling of Environment to Plant Response: A Simulation Model of Transpiration.
W76-00902 9-02 2D

WARKENTIN, B. P.
Bulk Density, Saturation Water Content a
Rate of Wetting of Soil Aggregates,
W76-07084 9-14

An Irrigation Rating for Some Soils in Antig
W. I.,
W76-07963 9-15

Void Changes in Allophane Soils Determini
Water Retention and Transmission,
W76-00559 9-02

WARNER, B. E.
Electrolytic Treatment of Job Shop Me
Finishing Wastewater,
W76-02070 9-05

WARNER, D. G.
Safety and Pollution Control - Offsho
Petroleum Producing Facilities,
W76-10603 9-20

WARNER, D. L.
Underground Liquid Waste Disposal,
W76-11888 9-22

WARNER, J. S.
Quantitative Determination of Hydrocarbons
Marine Organisms,
W76-10404 9-19

WARNER, J. W.
Artificial Recharge in the Upper Santa A
River Area, San Bernardino County, Calif
nia,
W76-00655 9-02

An Environmental Assessment of Impacts
Coal Development on the Water Sources of t
Yampa River Basin, Colorado and Wyoming
Phase-1 Work Plan,
W76-10135 9-19

Ground-Water Quality in Indian Wells Valle
California,
W76-00658 9-02

WARNER, L. A.
Flood of June 1972 in the Southern Pea
(Smoky River) Basin, Alberta,
W76-01316 9-03

WARNER, R. F.
Effects of Hydrologic Regime on Magnitu
and Frequency of Dominant Discharge,
W76-08514 9-16

WARNER, W. K.
Some Problems in Measuring the Social Co
sequences of Large-Scale Development Pr
jects,
W76-05366 9-11

WARNICK, C. C.
Boise Post-Audit Study, Hydrology Suppo
Study,
W76-02372 9-05

WARNOCK, R. G.
Efficiency of a Septic Tile System,
W76-11631 9-22

WARREN, D. K.
Saltcedar (Tamarix Chinensis) Seed Produc
tion, Seedling Establishment, and Response t
Inundation,
W76-06590 9-13

WARREN, G.
Treat Your Waste Right,
W76-00432 9-01

ARREN, I. R.
Systems Modeling of Stratified Fluids,
W76-09976 9-18 8B

ARREN, M. A.
Describing Snowpacks in Arizona Mixed Conifer Forests with a Storage-Duration Index,
W76-02744 9-06 2C

Snowpack Dynamics in Relation to Inventory-Prediction Variables in Arizona Mixed-Conifer,
W76-01123 9-03 2A

ARREN, M. R.
Capacity of Water-Based Recreation Systems, Part III: Methodology and Findings,
W76-01804 9-04 6B

ARREN, W. J.
Potable Water Quality in Rural Georgetown County,
W76-05050 9-11 5A

ARREN, W. M.
Hydrology of Limestone Terranes, Progress of Knowledge About Hydrology of Carbonate Terranes,
W76-12813 9-24 2F

ARRICK, A. W.
Analytical Solutions to the One-Dimensional Linearized Moisture Flow Equation for Arbitrary Input,
W76-01301 9-03 2G

Modeling Soil Water Movement for Trickle Irrigation,
W76-02365 9-05 2G

Percolation Tests for Septic Tank Suitability in Southern Arizona Soils,
W76-10248 9-19 5D

Solution to the One-Dimensional Linear Moisture Flow Equation with Water Extraction,
W76-03008 9-07 2G

Time-Dependent Linearized Infiltration: II. Line Sources,
W76-03007 9-07 2G

A Two-Phase Model for the Miscible Displacement of Reactive Solutes in Soils,
W76-00826 9-02 3C

WARSKOW, W. L.
Aerial Snowpack Mapping,
W76-02755 9-06 2C

WASHINGTON, B.
Biological Nitrification of Sludge Supernatant by Rotating Disks,
W76-05800 9-12 5D

Nitrification of a High Ammonia Content Sludge Supernatant by Use of Rotating Discs,
W76-03228 9-07 5D

WASHINO, M.
The Radiation-Induced Degradation of Azo Dyes in Aqueous Solutions,
W76-04790 9-10 5D

WASHOM, B. J.
The Development Criteria of the Preliminary Coastal Plan,
W76-13092 9-24 2L

WASIK, S. P.
Determination of Aromatic Hydrocarbons in Sea Water using an Electrolytic Stripping Cell,
W76-10390 9-19 5A

Fluorescence Measurements of Carcinogenic and Polycyclic Aromatic Hydrocarbons in Water,
W76-11243 9-21 5A

WASLENCHUK, D. G.
New Diver-Operated Bedload Sampler,
W76-12972 9-24 2J

WASSERMAN, E.
Use of Radar Information in Determining Flash Flood Potential,
W76-06653 9-13 4A

WASSERMAN, S. E.
Prediction of Meteorological Factors Related to Beach Erosion at New Jersey and Long Island, N.Y.,
W76-09270 9-17 2L

WASSERMANN, U.
Prospect for Sea-Bed Resources in a Recession,
W76-10979 9-20 6E

WASSON, B. E.
Ground-Water Data for Sunflower County, Mississippi,
W76-09140 9-17 7C

WATABE, K.
Studies on the Adsorptive Effect of Activated Charcoal on Polychlorinated Biphenyls in Water (Yozon PCB no kaseitan kyuchaku shori ni kansuru kenkyu),
W76-03715 9-08 5F

WATANABE, M.
Removing Oil Substances from Water, Roads, Tools and Machines,
W76-02849 9-06 5G

WATANABE, S.
Water Discharge Device for Use with Irrigation Systems,
W76-11843 9-22 3F

WATANABE, T.
A Biological Study on the Pollution of the Sai-Gawa River and its Tributaries, Ishikawa Prefecture, (In Japanese),
W76-10973 9-20 5B

WATANABE, Y.
An Experimental Investigation of Tertiary Treatment with a Submerged Filter (Sesshoku bakkiho ni yoru gesui sanjishori no jikkenteki kenkyu),
W76-08999 9-17 5D

Experimental Studies on the Sewage Tertiary Treatment by Rotating Disc Method (Kaiten enbanho ni yoru gesui 3-ji shori no jikkenteki kenkyu),
W76-07000 9-14 5D

WATERMAN, L. S.
Interstitial Water Studies on Small Core Samples. Leg 15,
W76-01581 9-04 2J

Interstitial Water Studies on Small Core Samples, Leg 22,
W76-00665 9-02 2L

WATKINS, R. K.
Structural Performance of Buried Plastic Drain Tubing,
W76-08771 9-17 8G

WATKINS, R. V.
Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Animal Feed, Breakfast Cereal, and Wheat Starch Segments of the Grain Mills Point Source Category,
W76-10594 9-20 5G

Development Document for Effluent Limitations Guidelines and Standards of Performance for New Sources. Beet Sugar Processing Subcategory of the Sugar Processing Point Source Category,
W76-01204 9-03 5G

WATLING, H.
Effect of Zinc on the Settlement of the Oyster Crassostrea Gigas,
W76-00866 9-02 5C

WATLING, H. R.
Trace Metals in Oysters from Knysna Estuary,
W76-11966 9-22 2L

WATLING, L.
Evaluation of Sludge Dumping Off Delaware Bay,
W76-11792 9-22 5B

Offshore Multi-Use Port Islands and Their Environment,
W76-09376 9-17 5G

WATLING, R. J.
Trace Metals in Oysters from Knysna Estuary,
W76-11966 9-22 2L

WATSON, C. B.
Role of the Underwriter in Tax Exempt Financing for Industrial Expansion and Pollution Control,
W76-09768 9-18 5G

WATSON, C. L.
Contact Materials for Laboratory Soil Water Studies,
W76-01415 9-03 2G

WATSON, G.
Quality of Water Considerations in Arid Area Water Management,
W76-10608 9-20 5B

WATSON, H.
Lagoons for Animal Waste Disposal,
W76-00441 9-01 5E

WATSON, I.
Geotechnical Aspects of Rock Borrow for Large Breakwaters,
W76-09386 9-17 5G

WATSON, I. C.
Monograph for the Effectiveness and Cost of Water Treatment Processes for the Removal of Specific Contaminats, Volume II, KWIK Index,
W76-06350 9-13 5F

Monograph of the Effectiveness and Cost of Water Treatment Processes for Removal of Specific Contaminants. Vol. 1. Technical Manual,
W76-09227 9-17 5F

WATSON, K. K.
Simulation of the Rainfall-Runoff Process Using a Hysteretic Infiltration-Redistribution Model,
W76-01421 9-03 2A

WATSON, K. K.

Simulation of the Rainfall-Runoff Process Using a Hysteretic Infiltration-Redistribution Model,
W76-03451 9-07 2G

The Use of a Dependent Domain Model of Hysteresis in Numerical Soil Water Studies,
W76-05158 9-11 2G

WATSON, K. S.
Joint Treatment versus Pretreatment of Food-Processing Wastes,
W76-04080 9-09 5D

WATT, T. R.
Sewerage System Monitoring and Remote Control,
W76-00691 9-02 5D

WATT, W. E.
QUURM—A Realistic Urban Runoff Model,
W76-04693 9-10 2A

QUURM - A Realistic Urban Runoff Model,
W76-05577 9-12 2A

WATTS, D. G.
Energy Reduction Through Improved Irrigation Practices,
W76-11109 9-21 3F

Irrigation System Management for Reducing Peak Electrical Demands,
W76-08549 9-16 3F

WAUGH, G.
Economics of Exhaustible Resources: The Fishery,
W76-05443 9-11 6C

WAUGH, J. R.
Chemical Run-off in Catchments Converted to Agricultural Use,
W76-02528 9-06 5B

WAUGH, R. G. JR.
Evaluating Costs for Port Distribution Systems,
W76-02716 9-06 4A

WAUTIER, J.
Detection of Zinc in Champy-Maillet's Histological Stain by Electron Probe Analysis,
W76-02891 9-06 5A

WAY, E.
How to Get the Most from Mud Pump Parts,
W76-10112 9-19 8G

WAYATT, J. M.
Sludge Processing, Transportation and Disposal/Resource Recovery: A Planning Perspective,
W76-12683 9-24 5D

WAYBRANT, R.
Animal Waste Impact on Recreation Waters,
W76-00475 9-01 5B

WAYMAN, C. W.
Plutonium Concentrations in Water and Suspended Sediment from the Miami River Watershed, Ohio,
W76-05887 9-12 5B

Plutonium in Aquatic Biota of the Great Miami River Watershed, Ohio,
W76-05888 9-12 5C

WAYTENICK, R. J.
Cooperation Helps Erie,
W76-08481 9-16 5D

WEATHERFORD, G. D.
Legal-Political History of Water Resource Development in the Upper Colorado River Basin,
W76-02669 9-06 6E

WEATHERLEY, A. H.
Assessment and Eradication of Heavy Metal Pollution in a Planned Urban Environment,
W76-08795 9-17 5C

WEAVER, G. D.
Possible Impacts of Oil Shale Development on Land Resources,
W76-01691 9-04 5C

WEAVER, G. T.
The Quantity and Distribution of Four Nutrient Elements in High-Elevation Forest Ecosystems, Balsam Mountains, North Carolina,
W76-10319 9-19 5B

WEAVER, J. H.
Filter Plant Modifications Feature Wastewater Recovery,
W76-00227 9-01 5F

WEAVER, J. T.
Calibration of the State Water Planning Model for Sub-Basin 42-KJ of the Yellowstone River Basin,
W76-04232 9-09 4A

WEAVER, R. J.
Field Evaluation of a Recharge Basin,
W76-11872 9-22 4B

Floating Ice Thickness and Structure Determination—Heated Wire Technique,
W76-00884 9-02 2C

WEAVER, T.
Ecological Effects of Weather Modification: Effect of Late Snowmelt on Festuca Idahoensis Elmer Meadows,
W76-06756 9-13 3B

WEBB, A. A.
Purification of Lignosulfonates by Dynamic Membrane Ultrafiltration,
W76-10868 9-20 5D

WEBB, B. P.
Development, Fabrication and Testing of a PPB Copper Analyzer,
W76-03144 9-07 3A

Sea Water Corrosion Test Program: Part Three,
W76-03145 9-07 3A

WEBB, C. J.
Small-Scale Cultivation of Cells and Tissues from Gobid Teleosts,
W76-03769 9-08 5C

WEBB, D. A.
Cannibalism by the Adult Alewife (Alosa Pseudogarengus) in Southern Lake Michigan,
W76-11324 9-21 2H

WEBB, E. K.
Evaporation from Catchments,
W76-04137 9-09 2D

WEBB, J. S.
Stream Sediment Composition: An Aid to Water Quality Assessment,
W76-11367 9-21 5A

WEBB, J. W.
Establishment of Vegetation for Shoreline Stabilization in Galveston Bay,
W76-07567 9-15 2L

WEBB, M.
The Toxicity of Various Mining Flotation Reagents to Rainbow Trout (Salmo Gairdneri),
W76-08448 9-16 5C

WEBB, R. G.
Isolating Organic Water Pollutants: XAD Resins Urethane Foams, Solvent Extraction,
W76-12873 9-24 5A

WEBB, R. J.
Dredging Costs: Their Estimation and Implications to the Management of Dredging Operations,
W76-01602 9-04 6C

WEBB, R. N.
Operation of the 3-Stage Flash Devices Plant 1969-1972,
W76-07111 9-14 3A

WEBB, R. O.
Measurement and Interpretation of Drift-Particle Characteristics,
W76-04823 9-10 5A

WEBB, W. C.
Maps Showing Ground-Water Conditions in the Ranegras Plain and Butler Valley Areas, Yuma County, Arizona—1975,
W76-10149 9-19 7C

WEBB, W. L.
Pesticide Residue Dynamics in a Forest Ecosystem: A Compartment Model,
W76-05946 9-12 5B

WEBB, W. S.
Mean Monthly Surface Temperatures of Lake Ontario from April 1972 to March 1973,
W76-11313 9-21 2H

WEBBER, L. R.
Exchange Properties of a Soil Used for the Disposal of Alkali Cannery Wastes,
W76-04737 9-10 5E

Nitrate Nitrogen Distribution in Corn Land Following Applications of Digested Sewage Sludge,
W76-03814 9-08 5B

WEBER, C. C.
The Effect of a Fossil Fuel Power Plant's Cooling Water System on the Water Quality of Green Bay, Wisconsin,
W76-11319 9-21 5B

WEBER, C. L.
New System Puts the Wood to Wastewater,
W76-05586 9-12 5D

WEBER, C. W.
Method for Determining and Controlling Liquid Cooling System Characteristics.
W76-06484 9-13 5G

WEBER, E.
Investigations Concerning Mapping and Classifying of Marsh Soils, (In German),
W76-12814 9-24 2G

WEBER, J.
Maximum Information Obtainable from Inadequate Design Data: from Multivariate to Bayesian Methods,
W76-09625 9-18 4A

Problems in Forecasting Water Requirements,
W76-08098 9-15 6D

WEBER, J. E.
The Use of Multiple Regression Models in Predicting Sediment Yield,
W76-11693 9-22 2J

WEBER, W. C.
Special Time Schedule for the City and County of San Francisco Relative to Regulation of Discharges from Combined Sewers,
W76-00806 9-02 6E

WEBER, W. J. JR.
A Continuous Flow Bioassay Method to Evaluate the Effects of Outboard Motor Exhausts and Selected Aromatic Toxicants on Fish,
W76-08780 9-17 5C

Removal of Cadmium from Waters and Wastes by Sorption on Hydrous Metal Oxides for Water Treatment,
W76-00107 9-01 5D

WEBSTER, J. R.
Nutrient Recycling and the Stability of Ecosystems,
W76-10267 9-19 5C

WEBSTER JR, W. J.
Ice Thickness Distribution as Inferred from Infrared and Microwave Remote Sensing During the Bering Sea Experiment,
W76-04996 9-10 2C

WEBSTER, L.
How Toronto is Installing Sewers Without Distrupting Traffic Flow,
W76-01051 9-03 5D

WEBSTER, R. M.
An Inexpensive Sampler for Studying the Microbiology of River Mud,
W76-12599 9-23 5A

WEBSTER, T. J. M.
Sedimentation of Organic Matter in St. Margaret's Bay, Nova Scotia,
W76-01311 9-03 2L

WEDORP, J. G.
Control of the Pollution of Surface Water Bodies (Bestrijding Verontreininging oppervlaktewater),
W76-01452 9-03 5D

WEDUM, J.
Environmental Inventory and Assessment of Navigation Pools 24, 25, and 26, Upper Mississippi and Lower Illinois Rivers; A Vegetational Study,
W76-11748 9-22 6G

WEED, E. G. A.
Stratigraphy of Atlantic Coastal Margin of United States North of Cape Hatteras--Brief Survey,
W76-01583 9-04 2L

WEEDEN, H. A.
The Penn State Orser System for Processing and Analyzing ERTS Data,
W76-02060 9-05 7C

WEEKS, C. R.
Urban Water Use in Australia,
W76-03272 9-07 6D

WEEKS, J. B.
Simulated Effects of the Proposed Narrows Reservoir on the Water-Table Aquifer Along the South Platte River, Morgan County, Colorado,
W76-11687 9-22 4B

WEEKS, J. L.
A Toxicological Assessment of Organic Reactor Coolants,
W76-04847 9-10 5C

WEEKS, M. E.
The Effect of Land Use on The Chemical and Physical Quality of Surface and Ground Waters in Small Water Sheds,
W76-06552 9-13 5B

WEEKS, W. D.
Flood Frequency Distribution in a Catchment Subject to Two Rainfall Producing Mechanisms,
W76-01425 9-03 2A

WEEKS, W. F.
Geophysical Studies of Floating Ice by Remote Sensing,
W76-02954 9-06 2C

Ice Dynamics in the Canadian Archipelago and Adjacent Arctic Basin as Determined by ERTS-1 Observations,
W76-04412 9-09 2C

WEERTMAN, J.
Milankovitch Solar Radiation Variations and Ice Age Ice Sheet Sizes,
W76-10949 9-20 2C

WEET, J. H.
Pilot Plant Optimization of phosphoric Acid Recovery Process,
W76-00676 9-02 5D

WEETER, D. W.
A Rational Approach to Decision Making in the Regionalization of Wastewater Treatment Systems,
W76-05251 9-11 5D

WEGMULLER, H.
Process for Purifying Industrial Effluents (Verfahren zur Reinigung von industriellen Abwaessern),
W76-12507 9-23 5D

WEGRZYN, T.
The Effect of Microorganisms on Phytotoxicity of Herbicides. III. Interaction of Bacillus SP. 72 with Venzar,
W76-07105 9-14 5C

WEHBY, J. M.
Federal Jurisdiction over Landfills on Sub-Aqueous Lands,
W76-12046 9-22 6E

WEI, I. W.
Dynamics of Breakpoint Chlorination,
W76-00115 9-01 5F

WEIDNER, J. R.
Environmental Aspects of Run-off and Siltation in the Anacostia Basin from Hyperaltitude Photographs,
W76-07568 9-15 4D

WEIGL, J.
Changes in Recirculated Water in a Paper Machine Over a Six Day Period (Veraenderungen im Kreislaufwasser einer Papiermaschine waehrend einer 6 Tage-Betriebsperiode),
W76-00053 9-01 5D

WEIGMANN, G.
On the Ecology of Collembola and Oribatids in a Landsea Transition Zone (Collembola, Insecta-Oribatei, Acari) (In German),
W76-09635 9-18 2L

WEIL, J. G.
Law Of The Sea - Exclusive Economic Zone (Discussion of Fisheries Jurisdiction Case),
W76-03591 9-08 6E

WEIL, L.
Fundamentals of Eliminating Organic Water Pollutants with Polyethylene (Grundlagen Der Eliminierung Organischer Wasserbelastungsstoffe Mit Polyaethylen),
W76-01555 9-04 5D

WEIMER, W. C.
Loss of P32-Phosphate and C14-Carbonate Activity During Liquid Scintillation Counting of Aqueous Samples,
W76-02417 9-05 5A

WEINBERG, M. S.
Beneficial Effects of Baking Soda Added to Septic Tanks,
W76-10012 9-19 5D

WEINER, P. D.
Stop Drill String Connection Failure,
W76-04049 9-09 8G

WEINER, R.
Radiocarbon Ages of Ground Water as a Basis for the Determination of Safe Limits of Aquifer Exploitation,
W76-00363 9-01 5B

WEINSTEIN, J. N.
Charge-Mosaic Membranes,
W76-02734 9-06 3A

WEINTRAUB, M. J.
The Influence of Activity Level on Bradycardia in Trout (Salmo Gairdneri) During Hypoxia,
W76-03031 9-07 5C

WEIR, J. E. JR.
Operation and Maintenance of a Deep-Well Water-Level Measurement Device, 'The Iron Horse',
W76-09835 9-18 4B

WEIR, R. H.
Acute Toxicity of Well-Drilling to Rainbow Trout,
W76-08899 9-17 5A

WEIS, J. S.
DDT Causes Changes in Activity and Schooling Behavior in Goldfish,
W76-12330 9-23 5C

WEIS, P.
DDT Causes Changes in Activity and Schooling Behavior in Goldfish,
W76-12330 9-23 5C

Ultrastructural Changes Induced by Low Concentrations of DDT in the Livers of the Zebrafish and the Guppy,
W76-07706 9-15 5C

WEIS, R. J.
Higher Speed May Lower Problems,
W76-03692 9-08 5D

WEISBERG, R. H.
Fortran Graphics Programs for Physical Oceanographic and Time Series Data,
W76-06661 9-13 7C

Velocity Observations in the West Passage of Narragansett Bay: A Partially Mixed Estuary,
W76-09561 9-18 2L

WEISBROD, B. A.
The Concept of Benefits in Cost-Benefit Analysis: With Emphasis on Water Pollution Control Activities,
W76-11154 9-21 5G

WEISE, G.
Investigations on the CO2 Balance of Submerged Higher Water Plants in Running Water by Means of a Mobile Laboratory for Infrared Gas Analysis, (In German),
W76-07312 9-14 2I

WEISEL, G. F.
Concentration of Heavy Metals in Sediments of a Hydroelectric Impoundment,
W76-09755 9-18 5A

WEISMAN, R. N.
Comparison of Warm Water Evaporation Equations,
W76-01310 9-03 2D

WEISS, B. D.
Comparison Study of Models used to Prescribe Hydrometeor Water Content Values, Part I: Preliminary Results,
W76-13172 9-24 2B

WEISS, C. M.
The Effect of Thermal Discharge on the Rate of Accumulation of Organic Substances on Glass Surfaces Immersed in Lake Norman,
W76-05875 9-12 5C

Effect of Thermal Stress on Phytoplankton Productivity in Condenser Cooling Water,
W76-03490 9-07 5C

Field Evaluation of the Algal Assay Procedure on Surface Waters of North Carolina,
W76-06698 9-13 5C

Response of Phytoplankton to Thermal Stress,
W76-08644 9-16 5C

The Trophic State of North Carolina Lakes,
W76-12210 9-23 5C

WEISS, D. E.
Filtration Process,
W76-10473 9-19 5D

WEISS, F. T.
Identification of Waterborne Oils,
W76-05150 9-11 5A

WEISS, H.
Process and Installation for the Treatment of Water and Other Liquids,
W76-03515 9-08 3A

WEISS, J. S.
Optical Malformations Induced by Insecticides in Embryos of the Atlantic Silversides, Menidia Menidia,
W76-08445 9-16 5C

WEISS, P.
Optical Malformations Induced by Insecticides in Embryos of the Atlantic Silversides, Menidia Menidia,
W76-08445 9-16 5C

WEISS, R. E.
Effects of Calcium, Strontium, and Magnesium on the Coccolithophorid Cricosphaera (Hymenomonas) Carterae. I. Calcification,
W76-10078 9-19 5C

Effects of Calcium, Strontium and Magnesium on the Coccolithophorid Cricosphaera (Hymenomonas) Carterae. II. Cell Division,
W76-10079 9-19 5C

WEISS, R. R.
Cascade Atmospheric Water Resources Program, Volume 3,
W76-06602 9-13 2B

WEISS, W. R.
Chlorinated Hydrocarbons in Mesopelagic Fishes of the Eastern Gulf of Mexico,
W76-08434 9-16 5C

WEISZ, R. N.
A Linear Programming Model for Use in Guiding Urban Floodplain Management,
W76-09849 9-18 6F

Remote Sensing as an Aid to Community Development in an Arid Area,
W76-02165 9-05 7B

WELAND, A. F.
Anaerobic Digestion of Sludge, Part I,
W76-03827 9-08 5D

Anaerobic Digestion of Sludge, Part II,
W76-06344 9-13 5D

WELBY, C. W.
Use of Multispectral Photography in Water Resources Planning and Management in North Carolina,
W76-11773 9-22 5A

Utilization of ERTS-1 Data in Geological Evaluation, Regional Planning, Forest Management, and Water Management in North Carolina,
W76-08538 9-16 4A

WELCH, B. W.
Validation of Snowpack Inventory Prediction Relationships in Arizona Ponderosa Pine Forests,
W76-01127 9-03 2A

WELCH, C. S.
Applications of Remote Sensing to Estuarine Problems,
W76-13184 9-24 2L

WELCH, H. E.
Metabolic Rates of Arctic Lakes,
W76-12602 9-23 5C

WELCH, S.
Kiln Dust from Cement Factories for Vacuum Filter Processing of Sewage Sludge,
W76-03214 9-07 5D

WELD, J.
Coase, Social Cost and Stability: An Integrative Essay,
W76-02616 9-06 6C

WELLBURN, A. R.
Detection and Preliminary Identification of Endogenous Antitranspirants in Water-Stressed Sorghum Plants,
W76-06026 9-12 2I

WELLER, G.
Computer Simulation of the Snowmelt and Soil Thermal Regime at Barrow, Alaska,
W76-02703 9-06 2C

A Digital Computer Simulation of the Annual Snow and Soil Thermal Regimes at Barrow, Alaska,
W76-04674 9-10 2C

WELLING, L. J.
Coating Reclaim at Consolidated [illegible] Inc. Wisconsin Rapids Division,
W76-01668 [illegible] 5D

WELLINGS, R. A.
Factors Affecting the Extraction and [illegible] of Polynuclear Aromatic Hydrocarbons from Water,
W76-09200 [illegible] 5A

WELLINGS, S. R.
Epizootiology of Tumors in a Population of Juvenile English Sole (Parophrys Vetulus) from Puget Sound, Washington,
W76-03657 [illegible] 5C

WELLS, C. G.
Influence of Nutrient Availability on Ecosystem Structure,
W76-10324 [illegible] 5C

Simulation of Nitrogen Distribution and Its Effect on Productivity in Even-Aged Loblolly Pine Plantations,
W76-10271 9-19 5B

Some Effects of Fertilization on Mineral Cycling in Loblolly Pine,
W76-10323 [illegible] 5C

WELLS, D.
Some Physical and Economic Aspects of Water Pollution Control for Cattle Feedlot Runoff,
W76-01034 [illegible] 5B

WELLS, D. M.
Cattle Feedlot Pollution Study,
W76-01045 [illegible] 5B

Factors Affecting Quality and Quantity of Feedlot Waste Collections,
W76-12364 [illegible] 5B

Public Law 92-500: Technology Assessment Technical Volume.
W76-11780 9-22 5G

A Systems Approach to Cattle Feedlot Pollution Control,
W76-00446 9-01 5G

Variation of Urban Runoff Quality and Quantity with Duration and Intensity of Storms - Phase III - Volume 1--Dry Weather Flows,
W76-08278 9-16 5B

Variation of Urban Runoff Quality and Quantity with Duration and Intensity of Storms - Phase III, Volume 2, Impacts of Dust Storms,
W76-08279 9-16 2A

Variation of Urban Runoff Quality and Quantity with Duration and Intensity of Storms - Phase III, Volume 3 - Analysis of Flow Models,
W76-08280 9-16 2A

Variation of Urban Runoff Quality and Quantity with Duration and Intensity of Storms Phase III, Volume 4 - Project Summary,
W76-08281 9-16 5B

WELLS, L. G.
Predicted Versus Measured Drainable Porosities,
W76-13019 9-21 4A

Upward Water Movement in Field Cores
W76-01068 [illegible] 3F

Upward Water Movement in Field Cores.
W76-09726 9-18 3F

WELLS, L. H.
Commentary on the Role of Force in the Oceans,
W76-07333 9-14 6E

Japan and the United Nations Conference on the Law of the Sea,
W76-06491 9-13 6E

WELLS, M.
Boise Post-Audit Study, Economic and Ecological History Support Study,
W76-02374 9-05 6B

WELLS, M. R.
Adenosine Triphosphatase Activity in Brain, Intestinal Mucosa, Kidney, and Liver Cellular Fractions of the Red-Eared Turtle Following in Vivo Treatment with DDT, DDD, and DDE,
W76-08115 9-16 5C

Insecticide Residues in Two Turtle Species Following Treatment with DDT,
W76-08778 9-17 5C

WELLS, P. G.
Effectiveness and Toxicity of an Oil Dispersant in Large Outdoor Salt Water Tanks,
W76-11824 9-22 5C

WELSH, J. P.
Characterization of Slush Ice in the Great Lakes,
W76-01487 9-03 2C

WELSH, W. M.
Chevron Main Pass Block 41 Oil Spill: Chemical and Biological Investigations,
W76-00145 9-01 5A

WEN, W-Y.
Thermodynamics of Aqueous Solutions of Quaternary Ammonium Salts,
W76-04505 9-10 2K

WENCK, N. C.
Irrigation of Leased Farmland with Treated Wastewater,
W76-11667 9-22 5D

WENDELL, M.
A Study of Prospective Water Pollution Control Activities for the Ohio River Valley Water Sanitation Commission (Orsanco),
W76-05654 9-12 5G

WENDLER, G.
Some Remarks on the Unusual Beaufort Sea Ice Conditions in Summer 1975,
W76-12470 9-23 2C

WENDT, T. M.
A Chemical-Biological Treatment Process for Cellulose Nitrate Disposal,
W76-11395 9-21 5D

Process for Treating Waste Water Containing Cellulose Nitrate Particles,
W76-05575 9-12 5D

WENGENROTH, B. H.
A Proposed Methodology for Assessing Alternative Technologies,
W76-13049 9-24 6G

WENSINK, R. B.
Model to Predict the Performance of Feedlot Control Facilities at Specific Oregon Locations,
W76-03971 9-08 5D

A Model to Predict the Performance of Feedlot Runoff Control Facilities at Specific Oregon Locations,
W76-06382 9-13 5B

Predicting the Performance of Feedlot Control Facilities at Specific Oregon Locations,
W76-01807 9-04 5G

WENTZ, D. A.
An Environmental Assessment of Impacts of Coal Development on the Water Sources of the Yampa River Basin, Colorado and Wyoming--Phase-1 Work Plan,
W76-10135 9-19 4C

Stream Quality in Relation to Mine Drainage in Colorado,
W76-03900 9-08 5B

Thermodynamic Constraints on Metal Solubilities in a Stream Affected by Mine Drainage, Bonanza, Colorado,
W76-03901 9-08 5B

WENTZ, W. A.
State-Of-The-Art Survey and Evaluation of Marsh Plant Establishment Techniques: Induced and Natural; Volume I: Report of Research,
W76-06635 9-13 4A

State-of-the-Art Survey and Evaluation of Marsh Plant Establishment Techniques: Induced and Natural; Volume II: A Selected Annotated Bibliography on Aquatic and Marsh Plants and their Management,
W76-06636 9-13 4A

WENTZLER, T. H.
Kinetics of Limestone Dissolution by Acid Waste Waters,
W76-01643 9-04 5D

WENZEL, H. G. JR.
Detention Storage Control Strategy Development,
W76-07236 9-14 5D

WENZLOFF, D.
Mercury Concentrations in Fish, North Atlantic Offshore Waters--1971,
W76-08360 9-16 5A

WERENSKIOLD, B.
Historic Heat curve of Recovery Operations,
W76-09303 9-17 5E

WERNER, H.
Process and Apparatus for Continuous Workup of Phosphorus-Containing Residues,
W76-04055 9-09 5D

WERNER, H. D.
Remote Sensing Techniques for Evaluation of Soil Water Conditions,
W76-01067 9-03 7B

WERNER, M. P.
Recreation Use Patterns and User Attitudes on the Snake River,
W76-08751 9-17 6B

WERTENBAKER, W.
Anatomy of an Oil Spill,
W76-10597 9-20 5B

WESCHE, T. A.
Relationship of Discharge Reductions to Available Trout Habitat for Recommending Suitable Streamflows,
W76-01809 9-04 4A

Relationship of Duration of Flows and Selected Watershed Parameters to the Standing Crop Estimates of Trout Populations,
W76-00674 9-02 4D

Relationships Between Selected Physical Parameters and Benthic Community Structure in a Small Mountain Stream,
W76-01803 9-04 2I

Stream Channel Modification to Enhance Trout Habitat Under Low Flow Conditions,
W76-04724 9-10 8I

WESNER, C. M.
AWT Energy Needs - A Prime Concern,
W76-12919 9-24 5D

WESNER, G. M.
AWT Energy Needs a Prime Concern,
W76-11198 9-21 5D

WEST, B. J.
Interaction of Small-Amplitude Surface Gravity Waves with Surface Currents,
W76-03737 9-08 2L

WEST, M. B.
Issues to be Resolved in the Second Substantive Session of the Third United Nations Conference on the Law of the Sea,
W76-07807 9-15 6E

WEST, P. J.
Combined Effects on the Environment of Radioactive, Chemical and Thermal Releases from the Nuclear Industry, (Report on the International Symposium Held in Stockholm June 2-5, 1975),
W76-12765 9-24 5C

WESTALL, J. C.
Fate of Trace Metals in Los Angeles County Wastewater Discharge,
W76-00355 9-01 5B

Fate of Trace Metals in Los Angeles County Wastewater Discharge,
W76-00545 9-02 5B

Fate of Trace Metals in Los Angeles County Wastewater Discharge,
W76-01104 9-03 5B

WESTERBERG, H.
Vertical Mixing Characteristics in the Thermocline and Hypolimnion Regions of Lake Ontario,
W76-11308 9-21 2H

WESTERBERG, J.
The Influence of Embankments on the Primary Production of Phytoplankton in the Archipelago of Foglo, Aland,
W76-01940 9-04 5C

WESTERMAN, A. G.
Sensitivity of Vertebrate Embryos to Heavy Metals as a Criterion of Water Quality, Phase III, Use of Fish and Amphibian Eggs and Embryos as Bioindicator Organisms for Evaluating Water Quality,
W76-05014 9-11 5C

WESTERMAN, P. W.
Overland Flow Pretreatment of Wastewater,
W76-11775 9-22 5D

WESTERMAN, R. L.
Effect of Salts and Salts Plus Nitrogen-15-Labeled Ammonium Chloride on Mineraliza-

WESTERMAN, R. L.

tion of Soil Nitrogen, Nitrification, and Immobilization,
W76-00735 9-02 3C

WESTFALL, T. R.
Up-Flow Separator,
W76-08983 9-17 5D

WESTOO, G.
Changes in the Levels of Environmental Pollutants (HG, DDT, Dieldrin, PCB) in Some Swedish Foods,
W76-10368 9-19 5C

WESTPHAL, H.
The Total Aerobic Heterotrophic Bacteria Germ Content of Water from the Series of Shallow Inlets to the South of Darss Found by Investigation Using the Cast Plate and the MPN Methods, (In German),
W76-10897 9-20 5A

WESTRICK, J. J.
Comparative Effects of Chemical Pretreatment on Carbon Adsorption,
W76-11209 9-21 5D

WESTSTRATE, F. A.
Evidence for New Aluminum Phosphate Phase from Reaction Rate of Phosphate with Aluminum Hydroxide,
W76-06295 9-13 5E

WESTWOOD, J. C. N.
Calcium Hydroxide (Lime) and the Elimination of Human Pathogenic Viruses from Sewage: Studies with Experimentally Contaminated (Poliovirus Type 1, Sabin) and Pilot Plant Samples,
W76-12931 9-24 5D

WETH, G. G.
Operation of the 3-Stage Flash Devices Plant, 1969-1972,
W76-07111 9-14 3A

WETHE, C.
Evaluation of Sludge Dumping Off Delaware Bay,
W76-11792 9-22 5B

Monitoring Coastal Water Properties and Current Circulation with ERTS-1,
W76-02044 9-05 7B

WETHERILL, G. D.
Total Waste Management for a Large Swine Production Facility,
W76-07181 9-14 5D

WETSELAAR, R.
Reuse of Effluent for Agricultural Purposes,
W76-01416 9-03 5D

WETZEL, R. D.
Compact Sewage Treatment Apparatus,
W76-00772 9-02 5D

WETZEL, R. G.
A Close-Interval Fractionator for Sediment Cores,
W76-01720 9-04 2J

Release of Dissolved Organic Matter by Autolysis of a Submersed Macrophyte, Scirpus Subterminalis,
W76-11942 9-22 5C

WETZLER, T. F.
Survival of Listeria Monocytogenes in Soil and Water,
W76-07423 9-14 5C

WEXLER, H. M.
Value Engineering: Make Sure The Costs Are Right,
W76-12906 9-24 5D

WEZERNAK, C. T.
Analysis of Cladophora Distribution in Lake Ontario using Remote Sensing,
W76-04589 9-10 5C

Basic Investigations for Remote Sensing of Coastal Areas,
W76-13182 9-24 2L

Basic Investigations for Remote Sensing of Coastal Areas,
W76-13183 9-24 2L

Basic Remote Sensing Investigations for Beach Reconnaissance: An Interim Report,
W76-12375 9-23 2L

Spectral Reflectance and Radiance Characteristics of Water Pollutants,
W76-13176 9-24 5A

WHALIN, R. W.
Effect of Offshore Structures on Shoreline Evolution, Atlantic Generating Station,
W76-09388 9-17 5G

Effect of Source Orientation and Location in the Aleutian Trench on Tsunami Amplitude Along the Pacific Coast of the Continental United States,
W76-07464 9-15 8B

Shore Effect Model, Atlantic Generating Station; Hydraulic Model Investigation,
W76-07457 9-15 8B

WHALON, M. E.
Chronic Oil Contamination and Aquatic Organisms with Emphasis on Diptera: Status and Bibliography,
W76-11709 9-22 5C

WHARAM, A.
Environmental Law in the USA: II,
W76-07358 9-14 6E

WHARFE, J. R.
A Study of the Intertidal Macrofauna Around the BP Refinery (Kent) Limited,
W76-03055 9-07 5B

WHARTON, J. C.
Judicially Enforceable Rights Under National Environmental Policy Act,
W76-07370 9-14 6E

WHEATCRAFT, S. W.
Waste Injection Into the Hawaiian Ghyben-Herzberg Aquifer: A Laboratory Study Using a Sand-Packed Hydraulic Model,
W76-11777 9-22 5B

WHEATLEY, Q. D.
Biodegradation of Polyvinyl Alcohol in Wastewater,
W76-06967 9-14 5D

WHEELWRIGHT, S. C.
Developing a Corporate Response to Pollution Control,
W76-02613 9-06 5G

WHELAN, J.
The Department of the Interior's Outer Continental Shelf Leasing Program,
W76-11475 9-21 6G

WHELAN, T.
Mass Movement of Mississippi River Delt Sediments,
W76-01322 9-03 2

WHELAN, W.
Monitoring Estuarine Circulation and Ocea Waste Dispersion Using an Integrated Satellite Aircraft-Drogue Approach,
W76-10671 9-20 5

WHELPDALE, D. M.
Particulate Residence Times,
W76-11450 9-21 5

WHICKER, F. W.
Selected Bibliography of Terrestrial, Freshwater, and Marine Radiation Ecology,
W76-06913 9-14 5

WHINSTON, A.
Cost Allocation for a Regional Pollution Treatment System,
W76-05442 9-11 5

The Large-Scale Regional Plant Hypothesis Discriminant Analysis,
W76-05267 9-11 5

WHINSTON, A. B.
Application of Multigoal Water Quality Planning Model,
W76-01616 9-04 5

Implementation of a Large Scale Water Quality Data Management System,
W76-10588 9-20 5A

Implementation of a Large Scale Water Quality Data Management System,
W76-12521 9-23 5

Implementation of a N. P. D. E. S. Data Management System,
W76-01502 9-04 5

Water Quality Management and Information Systems,
W76-01508 9-04 5

WHIPPLE, J. M.
Hydrologic Data Network for the Oswego River Basin, New York,
W76-00654 9-02 7B

WHIPPLE, W.
The Delaware Estuary System, Environmental Impacts and Socio-Economic Effects: Environmental Quality and Its Evaluation,
W76-02626 9-06 5G

Principles of Determing a Social Discount Rate,
W76-03263 9-07 6C

WHIPPLE, W. JR.
Assessing Unrecorded Organic Pollution from Agricultural, Urban, and Wooded Lands,
W76-01264 9-03 5B

Oxidation of Lake and Impoundment Hypolimnia,
W76-04016 9-09 5C

Reorientation of Urban Water Resources Research, Executive Summary,
W76-06554 9-13 6B

Reorientation of Urban Water Resources Research, Final Report,
W76-06553 9-13 6B

WHISLER, F. D.
Calculating the Unsaturated Hydraulic Conductivity and Diffusivity,
W76-08142 9-16 2G

The Effect of Increasing the Organic Carbon Content of Sewate on Nitrogen, Carbon, and Bacteria Removal and Infiltration in Soil Columns,
W76-02741 9-06 5D

Redox Potentials in Soil Columns Intermittently Flooded with Sewage Water,
W76-12145 9-22 5B

Stimulation of Denitrification in Soil Columns by Adding Organic Carbon to Wastewater,
W76-12920 9-24 5D

WHITAKER, E. C.
The Disposal of Sewage from Coastal Towns: The Case for Treatment,
W76-10225 9-19 5D

WHITAKER, R. E.
Wind-Driven Flow of Water Influenced by a Canopy,
W76-08801 9-17 2H

WHITAKER, R. S.
Waste Control and Abatement in the Processing of Sweet Potatoes,
W76-03636 9-08 5D

WHITE, C. J.
Effects of 1973 River Flood Waters on Brown Shrimp in Louisiana Estuaries,
W76-12693 9-24 5C

WHITE, D.
The Effect of Duration of Feeding, Amount of Food, Light Intensity, and Animal Size on Rate of Ingestion of Pelleted Food by Juvenile Penaeid Shrimp,
W76-01154 9-03 8I

WHITE, D. A.
Ecology of an Annual Saprolegnia Sp. (Phycomycete) Outbreak in Wild Brown Trout,
W76-08786 9-17 5C

WHITE, D. B.
Heavy-Metal Concentrations in Selected Georgia Estuarine Organisms with Comparative Food-Habit Data,
W76-10282 9-19 5C

WHITE, D. E.
Production of Superheated Steam from Vapor-Dominated Geothermal Reservoirs,
W76-01587 9-04 3E

WHITE, D. P.
Boron Toxicity in Red Pine Following Municipal Waste Water Irrigationrua.
W76-05177 9-11 5C

WHITE, E.
Chemical Run-off in Catchments Converted to Agricultural Use,
W76-02528 9-06 5B

WHITE, E. L.
Factor Analysis of Drainage Basin Properties: Classification of Flood Behavior in Terms of Basin Geomorphology,
W76-04939 9-10 2A

Role of Carbonate Rocks in Modifying Flood Flow Behavior,
W76-09784 9-18 2A

WHITE, G. C.
Current Chlorination and Dechlorination Practices in the Treatment of Potable Water, Wastewater, and Cooling Water,
W76-12877 9-24 5D

A Simulation Model of Tritium Kinetics in a Freshwater Marsh,
W76-10812 9-20 5B

WHITE, G. F.
Interdisciplinary Studies of Large Reservoirs in Africa,
W76-00065 9-01 4A

WHITE, G. O.
Operation of the 3-Stage Flash Devices Plant, 1969-1972,
W76-07111 9-14 3A

WHITE, H. R.
Process and Apparatus for Treating Fatty Waste Water,
W76-10471 9-19 5D

United States Environmental Laws and Exploration and Production Operations,
W76-03592 9-08 5G

Waste Treatment Process,
W76-10207 9-19 5D

WHITE, L. C.
Use of Mathematical Models in the Palo Alto Marshland Rehabilitation Project,
W76-09949 9-18 8B

WHITE, M. D.
Legal Problems in the Acquisition of Suitable Water Supplies for Oil Shale Operations in Western Colorado,
W76-06940 9-14 3E

Problems Under State Water Laws: Changes in Existing Water Rights,
W76-07233 9-14 6E

Water as a Tool in Land Use Control, Legal Considerations: An Exploratory Essay,
W76-01393 9-03 6E

WHITE, M. J. D.
Increasing the Capacity of Sedimentation Tanks by Means of Sloping Plates,
W76-09706 9-18 5D

A Solution to a Problem of Filter Cloth Blinding,
W76-07517 9-15 5D

WHITE, N.
Development of Residuals Management Strategies,
W76-12581 9-23 5G

WHITE, N. L.
Development of Residuals Management Strategies: An Executive Summary,
W76-13054 9-24 5G

WHITE, P. E. JR.
Sludge Processing, Transportation and Disposal/Resource Recovery: A Planning Perspective,
W76-12683 9-24 5D

WHITE, R. J.
Trout Population Responses to Streamflow Fluctuation and Habitat Management in Big Roche-A-Cri Creek, Wisconsin,
W76-08789 9-17 4A

WHITE, R. M.
United Nations Environment Program Earthwatch and Marine Pollution,
W76-10371 9-19 5B

WHITE, S. C.
How to Design Aerated Lagoon Systems to Meet 1977 Effluent Standards,
W76-09703 9-18 5D

How To Design Aerated Lagoon Systems to Meet 1977 Effluent Standards - Evaluation of Kinetic Coefficients,
W76-12903 9-24 5D

How to Design Aerated Lagoon Systems to Meet 1977 Effluent Standards Experimental Studies,
W76-09157 9-17 5D

How to Design Aerated Lagoon Systems to Meet 1977 Effluent Standards System Design,
W76-10512 9-20 5D

WHITE, S. M.
Energy Dissipation on a Rough Slope,
W76-09582 9-18 8B

WHITE, S. T.
Diel Changes in the Feeding Activity and Food Habits of the Spotfin Shiner, Notropis Spilopterus (Cope),
W76-10816 9-20 2I

WHITE, W. B.
Regional Hydrochemistry of North American Carbonate Terrains,
W76-04298 9-09 2K

WHITE, W. R.
Field Calibration of Flow Measuring Structures,
W76-04302 9-09 8G

WHITE, W. S.
Role of Calcium Carbonate Precipitation in Lake Metabolism,
W76-05480 9-11 2H

WHITE, W. T. JR.
Sod Production: An Experiment in Sludge Disposal,
W76-12633 9-23 5E

WHITEHEAD, C. R.
Sludge Heat Treatment: Operation and Management,
W76-09708 9-18 5D

WHITEHEAD, R. E. S.
Exploration Rock Geochemistry-Detection of Trace Element Halo at Heath Steele Mines (N. B., Canada) by Discriminant Analysis,
W76-09473 9-18 2K

WHITEHEAD, R. L.
Geothermal Investigations in Idaho: Part 2. An Evaluation of Thermal Water in the Bruneau-Grand View Area, Southwest Idaho,
W76-02655 9-06 4B

WHITEHEAD, W. K.
Analysis of Some Physical Properties of Poultry Processing Chiller Effluent,
W76-07534 9-15 5D

WHITEHEAD, W. R.
Cyclic Storage of Fresh Water in Saline Aquifers,
W76-01811 9-04 4B

Fresh Water Can be Stored in Saline Aquifers,
W76-10107 9-19 4B

WHITEHORN, N. C.
Industry Candidates and General Locations for Artificial Industrial-Port Islands,
W76-09377 9-17 5G

WHITEHURST, C. A.
Geomorphic Processes Active in the Southwestern Louisiana Canal, Lafourche Parish, Louisiana,
W76-02930 9-06 2J

WHITEHURST, D. D.
Sorbent for Removal of Heavy Metals,
W76-04189 9-09 5D

WHITESIDE, E. P.
Relationship of Geomorphology to Origin and Distribution of a High Charge Vermiculitic Soil Clay,
W76-06926 9-14 2G

WHITESIDE, M. C.
Chydorid (Cladocera) Ecology: Seasonal Patterns and Abundance of Populations in Elk Lake, Minnesota,
W76-01719 9-04 2H

A New Sampling Technique for Aquatic Ecologists,
W76-04922 9-10 7B

WHITFIELD, M.
Thermodynamic Limitations on the Use of the Platinum Electrode in Eh Measurements,
W76-06738 9-13 5A

WHITFIELD, M. S. JR.
Geohydrology and Water Quality of the Mississippi River Alluvial Aquifer, Northeastern Louisiana,
W76-01180 9-03 2F

Geohydrology of the Evangeline and Jasper Aquifers of Southwestern Louisiana,
W76-05861 9-12 2F

WHITING, J. H.
Ammonia Removal from Wastewaters: A Review of the State of the Art,
W76-12853 9-24 5D

WHITLATCH, E. E. JR.
Coal Gasification in Southeastern Ohio: Water Supply and Demand,
W76-10002 9-19 3E

Designing Regionalized Waste Water Treatment Systems,
W76-13166 9-24 5D

Systematic Approaches to Environmental Impact Assessment: An Evaluation,
W76-06431 9-13 6G

WHITLEDGE, T. E.
Results of Sea Surface Mapping in the Peru Upwelling System,
W76-02698 9-06 5A

WHITLOCK, C. G.
Irrigation Canal, Water-Withdrawal Weir,
W76-02248 9-05 3F

WHITMAN, H. M.
Water Availability of Monroe County, Alabama,
W76-12281 9-23 4A

WHITMAN, J.
Directory of EPA, State and Local Environmental Quality Monitoring and Assessment Activities.
W76-10623 9-20 5G

WHITMORE, C. M.
Changes in Blood Chemistry and Blood Cell Morphology in Coho Salmon (Oncorhynchus Kisutch) Following Exposure to Sublethal Levels of Total Residual Chlorine in Municipal Wastewater,
W76-08442 9-16 5C

WHITNEY, M. C.
The Federal Rule of Accretion and California Coastal Protection,
W76-04338 9-09 6E

WHITNEY, S. C.
Data Management in Coastal Zone Planning,
W76-06818 9-14 7C

Siting of Energy Facilities in the Coastal Zone - - A Critical Regulatory Hiatus,
W76-06819 9-14 6G

WHITSELL, W. J.
Problems of Individual Supplies,
W76-03434 9-07 5F

WHITTAKER, R. H.
Vegetation of the Santa Catalina Mountains, Arizona. v. Biomass, Production and Diversity Along the Elevation Gradient,
W76-02532 9-06 2I

WHITTED, A. L.
Sea Water Corrosion Test Program: Part Three,
W76-03145 9-07 3A

WHITTEMORE, D. O.
The Solubility of Ferric Oxyhydroxides in Natural Waters,
W76-00011 9-01 2K

WHITTEMORE, R. C.
Study to Define Changes in Pulp Mill Effluent-Contributed Color in Receiving Waters Detectable by Human Observers,
W76-09276 9-17 5C

WHITTENBURG, N. K.
Effects of Temperature and Salinity on Growth and Uptake of 65ZN and 137CS for Six Marine Algae,
W76-12238 9-23 5C

WHITTINGTON, M.
Pre-Investment in Port Facilities,
W76-06236 9-13 6C

WHITTLE, G. P.
New Analytical Techniques for the Study of Water Disinfection,
W76-00106 9-01 5F

WHITTLESEY, N. K.
Economic Costs of Controlling Water Quality Through Management of Irrigation Return Flows,
W76-12218 9-23 5G

WHITWORTH, W. R.
Biotic Changes in the Willimantic/Shetucket River Associated with Improvements in Sewage Treatment,
W76-04388 9-09 5C

WICHLINSKA, K.
Water Ozonation Plant at Wroclaw (Stacja ozonowania wode we Wroclawiu),
W76-03674 9-08 5F

WICHMAN, W. J.
Trickle Irrigator,
W76-10970 9-20 3F

WICKER, W. J.
Management and Financing Alternatives for Waste Disposal in Coastal Areas,
W76-11616 9-21 5E

WICKERSHAM, K.
A Land Use Decision Methodology for Environmental Control,
W76-00683 9-02 6B

WICKERT, F. M.
Installation for Removing Pollutants from Waterways,
W76-11837 9-22 5G

WICKES, J. W.
Bibliography of Water Resources of the Hawaiian Islands,
W76-05013 9-11 10C

WICKHAM, D. E.
Mortalities and Epibiotic Fouling of Eggs from Wild Populations of the Dungeness Crab, Cancer Magister,
W76-08444 9-16 5C

WICKINS, J. F.
Observations on the Breeding and Growth of the Giant Freshwater Prawn Macrobrachium Rosenbergii (De Man) in the Laboratory,
W76-07971 9-15 8I

WICKWIRE, R.
Where Have all the Daphnia Gone.The Decline of a Major Cladoceran In Lake Tahoe, California-Nevada,
W76-04912 9-10 5C

WIDMER, W. J.
Biotic Changes in the Willimantic/Shetucket River Associated with Improvements in Sewage Treatment,
W76-04388 9-09 5C

WIDSTRAND, C. G.
The Rationale of Nomad Economy,
W76-06591 9-13 4C

WIEBE, P. H.
Acid-Iron Waste as a Factor Affecting the Distribution and Abundance of Zooplankton in the New York Bight: I. Laboratory Studies on the Effects of Acid Waste on Copepods,
W76-09700 9-18 5C

WIEGMAN, E. J.
Study of Time-Lapse Processing for Dynamic Hydrologic Conditions,
W76-02713 9-06 4A

WIENER, J. G.
Chemical Composition of White-Tailed Deer: Whole-Body Concentrations of Macro- and Micronutrients,
W76-10303 9-19 5C

WIENS, J. K.
Evaluation of an Over-Extended Sprinkler Irrigation System,
W76-00198 9-01 3F

WIERENGA, P. J.
Predicting Anion Movement in Disturbed and Undisturbed Soils,
W76-05402 9-11 2G

Predicting Ionic Distributions in Large Soil Columns,
W76-07234 9-14 2G

Transfer of Boron and Tritiated Water Through Sandstone,
W76-08547 9-16 5B

WIERSMA, J. H.
The Effect of a Fossil Fuel Power Plant's Cooling Water System on the Water Quality of Green Bay, Wisconsin,
W76-11319 9-21 5B

WIESBOECK, R.
Application of a 500 Kev Electron Accelerator to the Continuous Irradiation of Liquids, Especially Waste Waters (Anwendung Eines 500-Kev-Elektronenbeschleunigers Zur Kontinuierlichen Bestrahlung Von Fluessigkeiten, Insbesondere Abwaessern),
W76-06957 9-14 5D

WIESNET, D. R.
Determination of Snow Depth and Snow Extent from NOAA 2 Satellite Very High Resolution Radiometer Data,
W76-06383 9-13 2C

Evaluation of ERTS Data for Certain Hydrological Uses,
W76-08147 9-16 7C

Monthly Winter Snowline Variation in the Northern Hemisphere from Satellite Records, 1966-75,
W76-03180 9-07 2C

Selected Satellite Data on Snow and Ice in the Great Lakes Basin 1972-73,
W76-11301 9-21 2C

Snow-Extent Mapping and Lake Ice Studies Using ERTS-1 MSS Together with NOAA-2 VHRR,
W76-02028 9-05 7B

WIGHT, J. R.
Range Fertilization in the Northern Great Plains,
W76-13131 9-24 4A

WIGLEY, T. M. L.
The Effect of Climate on the Chemistry of Carbonate Groundwater,
W76-04297 9-09 2F

WIKOR, K.
Changes in Plankton Resulting From Eutrophication of a Baltic Firth,
W76-01948 9-04 5C

WIKTOROWSKI, S.
Use of Ion Exchangers and Synthetic Sorbents for Removal of Color from Kraft Process effluents (Proby zastosowania jonitow i sorbentow syntetycznych do usuwania barwy ze sciekow posiarczanosych),
W76-05698 9-12 5D

WILBER, K. R.
Prediction and Measurement of Airborne Particulate Concentrations from Cooling-Device Sources and in the Ambient Atmosphere,
W76-04824 9-10 5A

WILBUR, D. J.
Acute Toxicity of Selected Toxicants to Six Species of Fish,
W76-10900 9-20 5C

WILBUR, K. M.
Effects of Calcium, Strontium, and Magnesium on the Coccolithophorid Cricosphaera (Hymenomonas) Carterae. I. Calcification,
W76-10078 9-19 5C

Effects of Calcium, Strontium and Magnesium on the Coccolithophorid Cricosphaera (Hymenomonas) Carterae. II. Cell Division,
W76-10079 9-19 5C

WILCOX, J. C.
Effects of Time Taken to Apply an Irrigation on Seasonal Irrigation Requirements,
W76-00731 9-02 3F

Ratio Between Evapotranspiration from Lysimeters and Evaporation from Small Evaporimeters Using 2- and 3- hour Periods of Measurement,
W76-06029 9-12 2D

WILCOX, R.
Treated Sewage for Power Plant Makeup Water,
W76-00786 9-02 5D

WILCOX, S. D.
A Freely Falling Probe for Small-Scale Temperature Gradients,
W76-04949 9-10 2H

WILCOX, W. H.
Bioaccumulation Factors for Radionuclides in Freshwater Biota,
W76-04846 9-10 5C

Biological Indicators of Environmental Quality. A Bibliography of Abstracts,
W76-09860 9-18 5A

WILD, J.
Pilot Scale Studies on Purification of Phenol Waste Waters by the Electrochemical Method (Badania Modelowe Oczyszczania Sciekow Fenolowych Metoda Elektrochemiczna),
W76-04782 9-10 5D

Studies of a Purification Model for Phenolic Wastes by Electrochemical Method (Badania Modelowe Oczyszczenia Sciekow Fenolowych Metoda Elektrochemiczna),
W76-05490 9-11 5D

WILDEMAN, T. R.
The Relation Between Water Chemistry and Mineral Zonation in the Central City Mining District, Colorado,
W76-06955 9-14 5B

WILDING, L. P.
Biological Transformation of Clay-Sized Sediments in Simulated Aquatic Environments,
W76-11291 9-21 2J

Loess in Ohio in Relation to Several Possible Source Areas: I. Physical and Chemical Properties,
W76-06399 9-13 2J

Loess in Ohio in Relation to Several Possible Source Areas: II. Elemental and Mineralogical Composition,
W76-06400 9-13 2J

Mineralogy and Related Parameters of Fluvial Suspended Sediments in Northwestern Ohio,
W76-12203 9-23 2J

WILDING, M. W.
Control of Microorganism Population in Fuel Storage Basin Water Using Ultraviolet Light,
W76-04833 9-10 5C

WILDMAN, R. B.
Improving Water Quality by control of Algae: Cellular and Extracellular Blue-Green Algal Polysaccharides,
W76-09760 9-18 5G

WILDMAN, W. C.
Improving Water Quality by control of Algae: Cellular and Extracellular Blue-Green Algal Polysaccharides,
W76-09760 9-18 5G

WILDRICK, D. M.
A Pre-Impoundment Study of the Fish Fauna of Indian Creek, Dekalb County, Illinois,
W76-06251 9-13 2E

WILEN, B. O.
The Modified Fernow Frost Gage,
W76-09880 9-18 7B

WILEY, A. J.
Purification of Lignosulfonates by Dynamic Membrane Ultrafiltration,
W76-10868 9-20 5D

Research on the Mechanisms for Removal of Soluble BOD(5) in Clarifier Systems,
W76-11378 9-21 5D

Treatment of Sulfite Evaporator Condensates for Recovery of Volatile Components,
W76-02336 9-05 5D

WILEY, J. R.
Removal of Cesium from Savannah River Plant Waste Supernate,
W76-07479 9-15 5D

WILEY, M. A.
Water Pollution Control, Mid-Course Correction,
W76-06978 9-14 5G

WILEY, N. P.
Insertion of Polyethylene Pipe Renews Damaged Sewer,
W76-01050 9-03 8A

WILHEIT, T. T.
Meteorological Interpretations of the Images from the Nimbus 5 Electrically Scanned Microwave Radiometer,
W76-07071 9-14 2B

WILHELM, J. G.
Discussion of Possible Effects Due to Mixing of Radioactive and Thermal Releases to the Atmosphere from Nuclear Power Plants,
W76-09502 9-18 5A

WILHELM, J. H.
Freeze Treatment of Alum Sludge,
W76-12928 9-24 5E

WILHELMI, A. R.
A Two-Step Process for Toxic Wastewaters,
W76-07746 9-15 5D

WILHM, J.
Effects of Artificial Destratification on Populations of Benthic Macroinvertebrates and Zooplankton in Ham's Lake and Arbuckle Reservoir,
W76-05017 9-11 5C

WILKE, D. A.
There is Something New Under the Sun,
W76-09152 9-17 5D

WILKE, H.
Proliferations in the Fish Epidermis after Treatment with Glycolysis Inhibitors, (Proliferationen der Fishepidermis nach der Einwirkung von Inhibitoren des Glykolytischen Energiestoffwechsels),
W76-02387 9-05 5C

WILKE, K. R.
Ground-Water Levels and Chemical Quality of Ground Water in Lincoln, Montana,
W76-09132 9-17 7C

WILKERSON, A. L.
Septic Tank System,
W76-09426 9-18 5D

WILKES, R. L.
Public Servitude for Navigation on Artificial Waters and the Commerce Clause,
W76-12044 9-22 6E

WILKINS, C. W.
Treatment of Paper Box Plant Effluents,
W76-05302 9-11 5D

WILKINS, D. W.
Maps Showing Ground-Water Conditions in the Ranegras Plain and Butler Valley Areas, Yuma County, Arizona--1975,
W76-10149 9-19 7C

WILKINS, J. R.
Analytical Notes--Electrochemical Method for Early Detection and Monitoring of Coliforms,
W76-10237 9-19 5A

WILKINSON, B. H. P.
Acid Coagulation and Dissolved Air Flotation,
W76-08224 9-16 5D

WILKINSON, D. E.
The Role of the Wisconsin Department of Agriculture in Agricultural Pollution Prevention and Control,
W76-01018 9-03 5E

WILKINSON, J. C.
Evaluation of Short-Term Operational Policies for a Multi-Purpose Reservoir System,
W76-06420 9-13 4A

WILKINSON, K. P.
Sociological Concepts of Social Well-Being: Frameworks for Evaluation of Water Resources Projects,
W76-05365 9-11 6B

WILKINSON, L. E.
Water Requirements for Energy,
W76-09231 9-17 3E

WILKINSON, M.
Intertidal Organisms of an Industrialized Estuary,
W76-11815 9-22 5C

WILKINSON, W. B.
Mathematical simulation of Groundwater Abstraction from Confined Aquifers for River Regulation,
W76-00904 9-02 2F

WILKON-MICHALSKA, J.
The Peripheral Flood Zones of Gniewkowo Lowland from 1969 to 1972, (In Polish),
W76-09079 9-17 2I

WILL, L. A.
Survival of Pathogens in Animal Manure Disposal,
W76-02765 9-06 5C

WILLAND, J. H.
Measurement of Sea Surface Temperature by the NOAA 2 Satellite,
W76-07072 9-14 2L

WILLARD, B. E.
The Ecological Basis for the August 1, 1973 Guidelines of the Council on Environmental Quality, and Some Ideas for the Preparation of Environmental Impact Statements,
W76-06556 9-13 6G

WILLARDSON, L. S.
Drain Envelope Response to Field Treatments,
W76-08548 9-16 4A

High-Pressure Water Jet Cleaning of Subsurface Drains,
W76-01564 9-04 8C

High Rate Sprinkling of a Low Intake Soil,
W76-01069 9-03 3F

Structural Performance of Buried Plastic Drain Tubing,
W76-08771 9-17 8G

WILLEKE, G. E.
Identifying the Public in Water Resource Planning,
W76-07238 9-14 6B

WILLEMS, D. G.
Feedlot Pollution,
W76-01027 9-03 5E

WILLENBRINK, R.
Wastewater Reuse and In-Plant Treatment,
W76-02448 9-05 5D

WILLETT, G. S.
Costs are Soaring: Irrigating from the Underground,
W76-06586 9-13 3F

The Economics of Converting Natural Gas-Powered Irrigation Pumps to Alternate Energy Sources in Southeastern Arizona,
W76-06588 9-13 3F

WILLETT, T. D.
Oil Tanker Pollution Control: Design Criteria vs Effective Liability Assessment,
W76-07812 9-15 5G

Optimal Leasing Policy for the Development of Outer Continental Shelf Hydrocarbon Resources,
W76-02375 9-05 6E

WILLETTS, B. B.
Local Erosion Caused by Rapid Forced Infiltration,
W76-03858 9-08 2J

WILLEY, B. F.
Chicago's Switch to Free Chlorine Residuals,
W76-00236 9-01 5F

WILLEY, R. E.
Evaluation of Data Availability and Examples of Modeling for Ground-Water Management on Cape Cod, Massachusetts,
W76-05856 9-12 4B

WILLEY, R. G.
Water Quality Evaluation of Aquatic Systems,
W76-04701 9-10 5B

WILLIAMS, A. T.
Volumetric Changes in Beach Profiles,
W76-00890 9-02 2L

WILLIAMS, B. J.
Two-Dimensional Mathematical Water Quality Model,
W76-08135 9-16 5B

WILLIAMS, D. A. R.
Water Quality and the Water and Soil Conse
vation Act 1967,
W76-10737 9-20 5

WILLIAMS, D. C. JR.
Development of Regional Water Manageme
Systems Operational Procedures,
W76-11329 9-21 6

WILLIAMS, D. D.
A Counterstaining Technique for Use in So
ing Benthic Samples,
W76-12606 9-23

WILLIAMS, D. G.
Minimizing Chemical and Fines Buildup
White Water by Chemical Means,
W76-07639 9-15 5

WILLIAMS, D. J.
Surveillance Methodology - 1974,
W76-07679 9-15 5

WILLIAMS, D. R.
Preimpoundment Water Quality of Raystow
Branch Juniata River and Six Tributa
Streams, South-Central Pennsylvania,
W76-13065 9-24 5

WILLIAMS, D. W.
Irrigated Agricultural Production Response
Constraints in Energy-Related Inputs.
W76-04562 9-10 3

WILLIAMS, E.
How to Use a Systems Approach to Comb
Lost Circulation,
W76-10115 9-19 8

A Submarine Sonar Study of Arctic Pack Ice,
W76-05394 9-11 7

WILLIAMS, E. P.
Flocculation of Suspended Solids,
W76-10468 9-19 5

WILLIAMS, F. P.
Water Pollution Control: Crossroads of a Mu
nicipal Financial Dilemma,
W76-11626 9-22 5

WILLIAMS, G.
Application of the National Weather Servic
Flash-Flood Program in the Western Region,
W76-08415 9-16 4

Vegetation Changes in a Small Michigan Bo
from 1917 to 1972,
W76-06761 9-13 2

WILLIAMS, G. I.
Improved Methods for the Measurement o
Dissolved and Particulate Organic Carbon i
Fresh Water and Their Application to Chal
Streams,
W76-07428 9-14 5

WILLIAMS, G. O.
Repeated Profiling of Microstructure Lense
with a Midwater Float,
W76-10692 9-20 2

WILLIAMS, G. S.
Reduced-Water Cleaning of Tomatoes,
W76-04734 9-10 3

WILLIAMS, H. H.
Operating Experience with an Advanced Colo
Removal System,
W76-02471 9-05 5

WILLIAMS, J. A.
Response to Tides of Coastal Aquifers: Analog Simulation vs. Field Observation,
W76-04002 9-09 2F

WILLIAMS, J. B.
A New Sampling Technique for Aquatic Ecologists,
W76-04922 9-10 7B

WILLIAMS, J. D. H.
Forms of Phosphorus in the Surficial Sediments of Lake Erie,
W76-08527 9-16 5B

Rates of Accumulation of Phosphorus Forms in Lake Erie Sediments,
W76-08726 9-16 2J

WILLIAMS, J. E.
Contribution of Northern Pike Fingerlings Raised in a Managed Marsh to the Pike Population of an Adjacent Lake,
W76-03520 9-08 8I

WILLIAMS, J. H.
Use of Sewage Sludge on Agricultural Land and the Effects of Metals on Crops,
W76-06339 9-13 5C

WILLIAMS, J. R.
Flood Profiles and Inundated Areas Along the Deschutes River, Washington,
W76-05415 9-11 2E

Sediment Routing for Agricultural Watersheds,
W76-01471 9-03 4D

Water Yield Model Using SCS Curve Numbers,
W76-12522 9-23 2A

WILLIAMS, K.
How to Use a Systems Approach to Combat Lost Circulation,
W76-10115 9-19 8G

WILLIAMS, K. E.
Fluorescent Whitening Agents: Acute Fish Toxicity and Accumulation Studies,
W76-07713 9-15 5C

WILLIAMS, N. E.
A Counterstaining Technique for Use in Sorting Benthic Samples,
W76-12606 9-23 2I

WILLIAMS, P. F.
Algal Communities in Polluted Rivers of South Wales,
W76-09107 9-17 5C

WILLIAMS, P. J.
Computerized Monthly Reports, Cost-Effective Alternative,
W76-06300 9-13 7C

WILLIAMS, P. J. LEB.
Amino Acid Uptake and Respiration by Marine Heterotrophs,
W76-08955 9-17 5C

WILLIAMS, P. M.
Chlorine Reactions with Seawater Constituents and the Inhibition on Photosynthesis of Natural Marine Phytoplankton,
W76-08946 9-17 5C

Copepod Slick in the Northwest Pacific Ocean,
W76-08959 9-17 5C

Cycling of Organic Carbon in the Ocean: Use of Naturally-Occurring Radiocarbon as a Long and Short Term Tracer,
W76-08956 9-17 5C

WILLIAMS, R. E.
Ground Water Leaching of Jig Tailing Deposits in the Coeur D'Alene District of Northern Idaho,
W76-06951 9-14 5B

The Hydrology of an Acid Mine Problem,
W76-06942 9-14 5G

WILLIAMS, R. H.
Research on Ultrafiltration Systems Under Seawater Desalting Conditions,
W76-08117 9-16 3A

WILLIAMS, R. J.
Selenium and Heavy Metals in Black Marlin,
W76-11716 9-22 5C

WILLIAMS, R. O.
A Survey of the Heavy Metal and Inorganic Content of Sewage Sludges,
W76-03238 9-07 5A

WILLIAMS, R. P.
Erosion and Sediment Transport in the Owens River Near Bishop, California,
W76-06458 9-13 2J

WILLIAMS, R. T.
Latex Paint Wastes--Municipal Charges and Treatment,
W76-03199 9-07 5D

Latex Waste and Treatment,
W76-03089 9-07 5D

WILLIAMS, S. L.
Atmospheric Dispersion of Cooling-Tower Blowdown,
W76-08853 9-17 5B

Distribution of Metals in Lake Sediments of the Adirondack Region of New York State,
W76-05475 9-11 5C

Sources and Distribution of Trace Metals in Aquatic Environments,
W76-01651 9-04 5B

WILLIAMS, T.
Computer Program for Drainage Quantities,
W76-01285 9-03 4C

WILLIAMS, T. C.
Plastic Pipe, Pressure Sewers, Mark Expansion,
W76-05765 9-12 5D

Pond and Irrigation Systems Offer Economy and Flexibility,
W76-05774 9-12 5D

WILLIAMS, T. E.
Ecological and Physiological Implications of Greenbelt Irrigation,
W76-08840 9-17 5D

WILLIAMS, T. T.
Calibration of the State Water Planning Model for Sub-Basin 42-KJ of the Yellowstone River Basin,
W76-04232 9-09 4A

WILLIAMS, W. D.
Distribution of Fish in Inland Saline Waters in Victoria, Australia,
W76-06143 9-12 2H

WILLIAMS-WYNN, D. A.
No-Effluent Tannery Processes,
W76-08182 9-16 3E

WILLIAMSON, A. N.
Sediment Concentration Mapping in Tidal Estuaries,
W76-02043 9-05 7B

WILLIAMSON, F. D.
Secondary Treatment at Long Reach,
W76-01741 9-04 5D

WILLIAMSON, F. S. L.
Classification of Wetlands Vegetation Using Small Scale Color Infrared Imagery,
W76-06411 9-13 2L

WILLIAMSON, K.
Verification Studies of the Biofilm Model for Bacterial Substrate Utilization,
W76-10247 9-19 5D

WILLIAMSON, S.
The Effects of Freshwater Inflows on Hydrological and Biological Parameters in the San Antonio Bay System, Texas,
W76-03420 9-07 2L

WILLIAMSON, T.
Gas Inclusions in the Antarctic Ice Sheet and Their Glaciological Significance,
W76-04972 9-10 2C

WILLING, P.
Owasco Lake and its Watershed, a Summary Report With Two Appendices and Maps,
W76-06751 9-13 5C

WILLIS, B. H.
Research Needs Relevant to Environmental Data, (Paper of the Technical Council on Water Resources Planning and Management),
W76-03823 9-08 6G

WILLIS, C.
Economic and Legal Analysis of Alternative Flood Control Strategies: Phase I,
W76-06159 9-13 6F

WILLIS, C. E.
Flood Proofing Decisions Under Uncertainty,
W76-05456 9-11 6F

A Floodplain Management Framework with Structural and Non-Structural Measures,
W76-09754 9-18 6F

Investment Sequencing, Allocation, and Learning in the Design of Water Resources Systems: An Empirical Application,
W76-09846 9-18 6A

WILLIS, C. J.
Bacterial Flora of Saline Aquifers,
W76-01254 9-03 5A

WILLIS, G. H.
An Automatic Pumping Sampler for Evaluating the Transport of Pesticides in Suspended Sediment,
W76-00728 9-02 5B

WILLIS, R.
Optimal Ground Water Quality Management: Well Injection of Waste Waters,
W76-09511 9-18 5D

Optimal Groundwater Quality Management: Well Injection of Waste Waters,
W76-05507 9-12 5B

WILLIS, R.

Optimal Management of the Subsurface Environment: Parameter Identification,
W76-10613 9-20 5B

Regional Development: An Econometric Study of the Role of Water Development in Effectuating Population and Income Changes,
W76-03137 9-07 6B

Transient Water Quality Modeling in Streams,
W76-06433 9-13 5B

Transient Water Quality Modeling in Streams,
W76-08730 9-16 5B

Water Quality Modeling of Deep Reservoirs,
W76-04552 9-10 5B

WILLRICH, T. L.
Overland Flow Treatment of Swine Manure Lagoon Effluent,
W76-06808 9-14 5D

WILLS, C. G.
Government Policies Relating to Water Pollution Control,
W76-04730 9-10 5G

WILLSON, G. B.
A Forced Aeration System for Composting Wastewater Sludge,
W76-11200 9-21 5E

WILM, A. S.
The Winooski Workshops: An Assessment of Specified Workshop Techniques for Stimulating and Improving Public Involvement in Water Resources,
W76-12151 9-23 6B

WILMOTTE, R.
Pollution Measurement in Electroplating (A Propos de la Mesure de la Pollution en Galvanoplastic),
W76-04038 9-09 5A

WILSON, A. D.
Comparison of Sheep and Cattle Grazing on Semiarid Grassland,
W76-10181 9-19 4C

WILSON, A. J.
Towards Rational Drainage Design,
W76-01061 9-03 4A

WILSON, A. L.
Absorptiometric Determination of Iron with T.P.T.Z.,
W76-08273 9-16 5A

WILSON, A. M.
Drought Resistance Characteristics of Blue Grama Seedlings,
W76-11505 9-21 2I

WILSON, C. L.
Environmental Monitoring from Spacecraft Data,
W76-08532 9-16 5A

WILSON, C. R.
Flow Interference Effects at Fracture Intersections,
W76-08335 9-16 2F

WILSON, D.
The Fate of Turpentine in Aerated Lagoons,
W76-05109 9-11 5D

WILSON, D. D.
Graphical Calculation of Aquifer Transmissivities in Northern Caterbury, New Zealand,
W76-04102 9-09 2F

WILSON, D. F.
Organic Compounds in Pulp Mill Lagoon Discharge,
W76-03631 9-08 5A

WILSON, E. M.
The Influence of Slope and Rain Intensity on Runoff and Infiltration.
W76-10702 9-20 2A

WILSON, F.
Incidence of Polychlorinated Biphenyls in Clyde Seaweed,
W76-11810 9-22 5C

WILSON, G. E.
Flocculation Apparatus,
W76-05989 9-12 5F

How to Drill a Usable Hole Part I - Why Deviation Occurs,
W76-11915 9-22 8G

How to Drill a Usable Hole - Part 2, Designing the Bottomhole Assembly,
W76-13038 9-24 8B

How to Drill Without Troublesome Dog-Legs,
W76-10111 9-19 8G

Sewage Treatment System,
W76-08992 9-17 5D

WILSON, G. S.
Atmospheric Structure and Variability in Areas of Convective Storms Determined from 3-h Rawinsonde Data,
W76-12185 9-23 2B

WILSON, H. A.
Tolerance and Synthetic Ability of Sewage Microorganisms in Acid Mine Water,
W76-04725 9-10 5C

WILSON, H. B.
The Construction and Operation of Gravel Well Sources with Particular Reference to Those of the Nene and Ouse Water Board,
W76-03817 9-08 3B

WILSON, J. D.
Method for Treating Hemi Caustic Effluents,
W76-12495 9-23 5D

WILSON, J. R.
Influence of Water Stress on Parameters Associated with Herbage Quality of Panicum Maximum Var. Trichoglume,
W76-02969 9-06 2I

Organic Compounds in Pulp Mill Lagoon Discharge,
W76-03631 9-08 5A

WILSON, K. C.
Mercury in Fish in the Derwent Estuary, Tasmania, and its Relation to the Position of the Fish in the Food Chain,
W76-00871 9-02 5A

WILSON, K. L.
Ice Dynamics in the Canadian Archipelago and Adjacent Arctic Basin as Determined by ERTS-1 Observations,
W76-04412 9-09 2C

WILSON, L.
Application of the Wind Erosion Equation in Air Pollution Surveys,
W76-03125 9-07 5A

WILSON, L. G.
Applications of Finite Element and Computer Graphics Techniques in Aquifer Analysis,
W76-04931 9-06 2

Feasibility of Modelling the Influence of Recharge on Groundwater Level and Quality in Alluvial Basins,
W76-11487 9-22 2

Groundwater Pollution Monitoring Case Studies,
W76-10661 9-20 5

Transformations in Quality of Recharging Effluent in the Santa Cruz River,
W76-02750 9-06 5

WILSON, R. C. H.
Practical Application of the Toxicity Emission Rate Concept in a Survey of Maritime Pulp and Paper Mills,
W76-09293 9-17 5

WILSON, R. D.
Estimate of Annual Input of Petroleum to the Marine Environment from Natural Marine Seepage,
W76-05141 9-11 5

Estimates of Annual Input of Petroleum to the Marine Environment from Offshore Production Operations,
W76-05142 9-11 5

WILSON, R. M.
Studies on the Effects of Thermal Additions on Selected Zooplankton Populations,
W76-04012 9-09 5

WILSON, R. T.
Solid-Waste Disposal Sites in Relation to Water Resources in the Seattle-Tacoma Urban Complex and Vicinity, Washington,
W76-02489 9-05 7

Table of Data on Quality of Surface Water and of Snowpack Draining to Baker River from Mount Baker, Washington,
W76-04988 9-10 7

Table of Data on Water Quality of Baker Lake near Mount Baker, Washington,
W76-05857 9-12 7

WILSON, S. K.
An Analysis of Four Showers with Rainfall Rates > 250 mm/hr,
W76-06907 9-14 2

WILSON, S. R.
Continued Studies on the Use of a Mixed Chromate-Phosphate Inhibitor in Desalination Service: Part Two,
W76-03143 9-07 3A

WILSON, T. E.
Beneficial Use of Industrial Wastes in Municipal Wastewater Treatment Plants,
W76-11668 9-22 5

Land and Sea Solids Management Alternatives in Philadelphia,
W76-07033 9-14 5E

Upgrading Primary Treatment with Chemicals and Water Treatment Sludge,
W76-06286 9-13 5

WILSON, W.
Studies on the Ca, Mg, and Sr Content of Freshwater Clamshells,
W76-06119 9-12 2H

WILSON, W. C.
Planning an Input-Output Study for Water Resources Management in Nevada,
W76-02640 9-06 6A

WILSON, W. E.
Evaluation of a Proposed Connector Well, Northeastern Desoto County, Florida,
W76-00095 9-01 4B

WILSON, W. W.
Cognitive Strawman: Public Input to a Water Resource Planning System,
W76-06548 9-13 6B

WIMBERLEY, J. W.
The Determination of Total Mercury at the Part Per Billion Level in Soils, Ores, and Organic Materials,
W76-02887 9-06 5A

WIMBERLY, E. T.
Satellite Relay and Processing of Hydrologic Data in South Florida,
W76-01578 9-04 7B

WINANT, C. D.
Description of Seasonal Beach Changes Using Empirical Eigenfunctions,
W76-03377 9-07 2L

WINDEYER, V.
Kenneth Bailey Memorial Lectur' The Seabed in Law'.
W76-05195 9-11 6E

WINDHAGER, R. H.
Treatment and Safe Disposal of Cationic Coating Colors,
W76-05488 9-11 5D

WINDLE, P.
Differing Sensitivity of Corn and Soybean Photosynthesis and Transpiration to Lead Contamination,
W76-00720 9-02 5B

WINDOM, H. L.
Concentrations of Total Mercury and Methyl Mercury in Fish and Other Coastal Organisms: Implications to Mercury Cycling,
W76-10283 9-19 5B

Effects of Environmental Levels of Mercury and Cadmium on Rates of Metal Uptake and Growth Physiology of Selected Genera of Marine Phytoplankton,
W76-10280 9-19 5C

Heavy-Metal Concentrations in Selected Georgia Estuarine Organisms with Comparative Food-Habit Data,
W76-10282 9-19 5C

Possible Influence of Atmospheric Transport on the Total Mercury Content of Southeastern Atlantic Continental Shelf Surface Waters,
W76-09224 9-17 5B

River Input of Inorganic Phosphorus and Nitrogen to the Southeastern Salt-Marsh Estuarine Environment,
W76-10286 9-19 5C

The Role of Spartina Alterniflora in the Flow of Lead, Cadmium, and Copper Through the Salt-Marsh Ecosystem,
W76-10281 9-19 5C

Spartina Revegetation on Dredge Spoil in SE Marshes,
W76-03121 9-07 5G

WINESETT, R. W.
Legal Standards for Determining the Ordinary High Water Mark,
W76-12042 9-22 6E

WINFIELD, R. P.
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W76-11286 9-21 5C

WING, R. E.
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W76-08402 9-16 5D

WINGERTER, R.
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WINGET, R. N.
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W76-10821 9-20 6G

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W76-04042 9-09 4C

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W76-10820 9-20 6G

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W76-02736 9-06 6B

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W76-03707 9-08 5A

WINKLE, W. VAN
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W76-03029 9-07 5C

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W76-02269 9-05 5G

WINKLEY, B. R.
Remote Sensing of Mississippi River Characteristics,
W76-12442 9-23 7B

WINNEBERGER, J. H. T.
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W76-10012 9-19 5D

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W76-01744 9-04 5D

WINNER, M. D. JR.
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W76-02149 9-05 7C

WINOGRAD, I. J.
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W76-02140 9-05 5B

A Summary of the Ground-Water Hydrology of the Area Between the Las Vegas Valley and the Amargosa Desert, Nevada, With Special Reference to the Effects of Possible New Withdrawals of Ground Water,
W76-12807 9-24 4B

WINSLOW, T. S.
Portable Breakwater with Ship Hulks,
W76-10459 9-19 8B

WINTER, D. F.
Computation of Tidal Flow in Well-Mixed Estuaries,
W76-08741 9-16 2L

WINTER, J. A.
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WINTER, K.
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W76-08080 9-15 2I

WINTERS, J. K.
Analyses of Hydrocarbons in Marine Organisms: Results of Idoe Intercalibration Exercises,
W76-10398 9-19 5A

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WIRTENAN, L.
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W76-08658 9-16 8I

WIRTH, T. L.
Aeration as a Lake Management Technique,
W76-07103 9-14 5C

Upgrading Lakes--Lake Renewal and Management Techniques,
W76-02645 9-06 5G

WISCHMEIER, W. H.
Evaluating Irregular Slopes for Soil Loss Prediction,
W76-01567 9-04 2J

Use and Misuse of the Universal Soil Loss Equation,
W76-08120 9-16 2J

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W76-05435 9-11 6B

WISE, G. G. III.
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W76-01089 9-03 5B

WISE, R. H.
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W76-12901 9-24 5D

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W76-00364 9-01 5D

WISEMAN, W. J. JR.
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W76-02551 9-06 2C

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W76-12250 9-23 2A

WISHART, E. R.
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W76-10697 9-20 2B

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W76-03376 9-07 2L

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W76-08173 9-16 3E

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W76-04747 9-10 5D

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W76-08115 9-16 5C

WITHERSPOON, P. A.
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W76-08335 9-16 2F

An Integrated Finite Difference Method for Analyzing Fluid Flow in Porous Media,
W76-08123 9-16 2F

WITHEY, D. C.
Automation of Water Supply Systems,
W76-12817 9-24 5F

WITKAMP, M.
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W76-10317 9-19 5C

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W76-11679 9-22 4A

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W76-10672 9-20 5A

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W76-06930 9-14 2H

WITTEN, A. L.
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W76-06948 9-14 5G

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W76-04092 9-09

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W76-01198 9-03

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Experiences and Possibilities with the Andrit Sem Double Wire Press for Sludge Dewaterin Particularly in the Paper, Pulp and Board I dustry (Erfahrungen und Moeglichkeiten m der Andritz-Sem Doppelsiebpresse bei d Schlamment-waesserung, insbesondere in d Papier-, Zellstoff-und Karto
W76-05729 9-12

WOHLFARTH, G. W.
Genetic Differences in Susceptibility to Tw Diseases Among Strains of the Common Carp,
W76-06764 9-13

WOJCIECHOWSKI, I.
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W76-05474 9-11

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W76-06166 9-13

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W76-12443 9-23

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OLERY, T. J.
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W76-11293 9-21 5B

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OLF, D. C.
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W76-07189 9-14 5B

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W76-05318 9-11 5D

OLF, J. H.
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W76-02255 9-05 4B

OLF, M. A.
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W76-04828 9-10 5B

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W76-13082 9-24 2F

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W76-11478 9-21 6G

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W76-03027 9-07 5C

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W76-10892 9-20 5C

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W76-07247 9-14 5C

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W76-02499 9-05 2B

OLLER, D. M.
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W76-05131 9-11 4B

Public Groundwater Supplies in Champaign County,
W76-05130 9-11 4B

Public Groundwater Supplies in Lake County,
W76-12824 9-24 4B

Public Groundwater Supplies in Macoupin County,
W76-06257 9-13 4B

Public Groundwater Supplies in Massac County,
W76-05132 9-11 4B

Public Groundwater Supplies in McHenry County,
W76-10719 9-20 4B

Public Groundwater Supplies in Putnam County,
W76-06237 9-13 4B

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W76-09474 9-18 4A

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W76-00546 9-02 2J

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W76-09483 9-18 4A

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OLVERTON, B. C.
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W76-04245 9-09 5C

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W76-09298 9-17 5D

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W76-11463 9-21 5C

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W76-11009 9-20 5A

ONG-CHONG, G. M.
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W76-08369 9-16 5D

ONG, H. Y.
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W76-04098 9-09 2G

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W76-12701 9-24 5C

ONG, S. L.
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W76-13120 9-24 5C

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W76-08077 9-15 2A

OO, E.
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W76-04275 9-09 5A

WOO, P. W.
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W76-03123 9-07 5B

WOOD, B. J. B.
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W76-05461 9-11 5C

WOOD, D. J.
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W76-09716 9-18 5D

WOOD, D. K.
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W76-03700 9-08 5D

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W76-12783 9-24 6G

WOOD, E. F.
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W76-05272 9-11 2E

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W76-01761 9-04 4A

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W76-12534 9-23 4A

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W76-11703 9-22 4A

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W76-02941 9-06 8B

WOOD, E. M.
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W76-04923 9-10 5C

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W76-09933 9-18 5C

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W76-04909 9-10 5C

WOOD, L. B.
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W76-12665 9-23 5D

WOOD, L. D.
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W76-10730 9-20 5G

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W76-11898 9-22 5G

WOOD, M. K.
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W76-06596 9-13 4D

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The Utilisation of Sewage Sludge,
W76-03328 9-07 5D

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W76-08046 9-15 4B

Geochemical Factors Affecting Artificial Groundwater Recharge in the Unsaturated Zone,
W76-03818 9-08 5G

A Hypothesis of Ion Filtration in a Potable-Water Aquifer System,
W76-12803 9-24 4B

WOOD, W. W. JR.
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W76-10534 9-20 5G

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W76-05175 9-11 5D

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W76-10291 9-19 5B

WOODARD, F. E.
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W76-05708 9-12 5D

WOODBRIDGE, D. D.
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W76-09525 9-18 5D

Radiation Treatment Method and Apparatus for Decontamination of Polluted Fluid,
W76-01136 9-03 5D

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W76-09524 9-18 5

Waste Disposal Method,
W76-00790 9-02 5

WOODFORD, D. L.
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W76-01649 9-04 5

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W76-02988 9-06 5

Environmental Studies for Major Offsho Developments,
W76-09336 9-17 5

WOODHEAD, D. S.
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W76-08604 9-16 5

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W76-01169 9-03 2

WOODRUFF, N. P.
Techniques for Improving Tree Survival an Growth in Semiarid Areas,
W76-10175 9-19 2

WOODS, D. R.
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W76-04770 9-10 5I

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Sensitivity of Linear and Nonlinear Surface Runoff Models to Input Errors,
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W76-12739 9-24 2G

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In Situ Hydraulic Conductivity at Four Hillslope Locations in a Closed Drainage System,
W76-00023 9-01 2G

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W76-08451 9-16 5C

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W76-11726 9-22 5C

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W76-10820 9-20 6G

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W76-10824 9-20 6G

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W76-02674 9-06 4D

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W76-10975 9-20 5D

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W76-05335 9-11 5D

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W76-01125 9-03 2F

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The Use of Resistivity Logging to Estimate Borehole Yield from a Matrix-Conducting Sandstone,
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W76-10485 9-19 3A

WRIGHT, B. G.
Organic Acid Changes in the Epidermis of Vicia Faba and Their Implication in Stomatal Movement,
W76-01107 9-03 2I

WRIGHT, C. E.
The Assessment of Regional Groundwater Schemes by River-Flow Regression Equations,
W76-00548 9-02 4B

WRIGHT, D. A.
Fluoride in Marine Animals,
W76-11593 9-21 5C

WRIGHT, D. E.
Cost-Effective Goal,
W76-10032 9-19 5D

Evaluation of an Infrared Oil Film Monitor,
W76-02544 9-06 5A

Evaluation of the Ciria Prototype Model for the Design of Sewage-Treatment Works,
W76-10245 9-19 5D

WRIGHT, D. G.
Studies of High-Rate Biological Treatment of Ipswich Sewage on Pilot Filters using Plastics Media,
W76-09029 9-17 5D

WRIGHT, D. L.
Buffalo Harbor Diked Disposal Sites: Engineering Properties and Drainage Characteristics,
W76-06666 9-13 5E

WRIGHT, F. F.
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W76-00994 9-02 2L

WRIGHT, G. P.
Systems Description of the U.S. Coast Guard Maritime Environmental Protection Program,
W76-04330 9-09 5G

WRIGHT, J. A.
Evaluation of an Infrared Oil Film Monitor,
W76-02544 9-06 5A

WRIGHT, J. C.
Primary Production Studies on a New Reservoir: Bighorn Lake-Yellowtail Dam, Montana, U.S.A.,
W76-05471 9-11 5C

WRIGHT, J. E.
Differences in Low PH Tolerance Among Strains of Brook Trout (Salvelinus Fontinalis),
W76-10074 9-19 5C

WRIGHT, J. L.
Changes in Climate and Estimated Evaporation Across a Large Irrigated Area in Idaho,
W76-06406 9-13 2D

WRIGHT, J. M.
A Three-Directional Approach to Flood Plain Management, Minnesota Experiences,
W76-05228 9-11 6F

WRIGHT, J. W.
The Wind Drift and Wave Breaking,
W76-09724 9-18 2L

WRIGHT, K. A.
Biological Effects of High-Energy Electron Irradiation of Municipal Sludge,
W76-09522 9-18 5C

Prospects for High-Energy Electron Irradiation of Waste-Water Liquid Residuals,
W76-09538 9-18 5D

WRIGHT, K. R.
Sewage Effluent Turned to Snow: Provides Storage, Removes Pollutants,
W76-13048 9-24 5D

WRIGHT, L. D.
Beach Dynamics and Nearshore Morphology of the Beaufort Sea Coast, Alaska,
W76-12820 9-24 2L

Mass Movement of Mississippi River Delta Sediments,
W76-01322 9-03 2L

Mass Transport and Dispersion Off a Tidal Inlet,
W76-09381 9-17 5G

Mississippi River Mouth Processes: Effluent Dynamics and Morphologic Development,
W76-01321 9-03 2L

WRIGHT, N. G.
Cost of Producing Crops in the Irrigated Southwest, Part II: New Mexico,
W76-09475 9-18 3F

Cost of Producing Crops in the Irrigated Southwest: Part III - Nevada,
W76-00383 9-01 3F

Cost of Producing Crops in the Irrigated Southwest, Part V: Utah,
W76-09063 9-17 3F

WRIGHT, P.
Method for Locating and Evaluating Geothermal Sources of Energy by Sensing Electrostatic Voltage Gradients,
W76-08204 9-16 4B

WRIGHT, P. B.
Effects of Sewage Effluent on a Swampland Stream,
W76-04919 9-10 5C

WRIGHT, R. E.
Evaluation Procedure of Critical Factors of Mining Impact on Ground Water Resources,
W76-06941 9-14 5G

WRIGHT, R. S.
Massive Lime Treatment Color Removal from Kraft Effluents,
W76-02314 9-05 5D

WRIGHT, S. J. L.
A Simple Agar Plate Method, Using Micro-Algae for Herbicide Bio-Assay or Detection,
W76-00339 9-01 5A

WRIGHT, W. R.
A Volumetric Temperature/Salinity Census for the Middle Atlantic Bight,
W76-12990 9-24 2L

WRIGHT, W. W.
Development of Reverse Osmosis Membranes and Spiral Design Modules for Demineralization of Brackish Waters at Low Pressures,
W76-08373 9-16 3A

WU, I.
Drip Irrigation Design Based on Uniformity,
W76-01070 9-03 3F

WU, I-P.
Design of Drip Irrigation Main Lines,
W76-03160 9-07 8B

WU, J.
Effects of Pulsating Wind on Velocity Profiles and Microstructures,
W76-03741 9-08 2L

Wind Effects on Stream Flows,
W76-05921 9-12 2E

Wind Erosion of Heated Surface Layer,
W76-02690 9-06 5B

WU, S.
Reproducibility Evaluation of the Flocculation of a Synthetic Latex Colloidal System,
W76-12212 9-23 5D

WU, S. T.
Thermoviscoelasticity of Aging Concrete,
W76-00277 9-01 8F

WU, Y. C.
Clarification of Book-Mill Effluent by Enzyme-Alum,
W76-03078 9-07 5D

WUEST, D.
Flow Velocity as a Rate Determining Factor for Self-Purification in Rivers (Uber Den Einfluss der Stromungsgeschwindigkeit auf die Selbstreinigung in Fliessgewaessern),
W76-09204 9-17 5F

WUHRMANN, K.
Experiments on the Effects of Inorganic Enrichment of Rivers on Periphyton Primary Production,
W76-08787 9-17 5C

Flow Velocity as a Rate Determining Factor for Self-Purification in Rivers (Uber Den Einfluss der Stromungsgeschwindigkeit auf die Selbstreinigung in Fliessgewaessern),
W76-09204 9-17 5F

WULFMEIER, H.
Fluidized Bed Furnace Having Coarse Particle Discharging Device,
W76-03661 9-08 5E

WULTSCH, F.
Sludge Dewatering in Effluent Purification Plants of the Pulp and Paper Industry with Special Reference to the Twin-Belt Press (Schlammentwaesserung in Abwasserreinigungs- anlagen der Zellstoff-und Papierindustrie unter besonderer Beruecksichtigung der Doppelsiebpresse),
W76-00057 9-01 5D

WULTSCH, R.
Sludge Dehydration in Wastewater Treatment Plants of the Pulp and Paper Industry with Special Regard to the Double Filter Press (Schlammentwaesserung in Abwasserreinigungsanlagen der Zellstoff-und Papierindustrie unter besonderer Beruecksichtigung der Doppelsieb-Presse),
W76-00129 9-01 5D

WUNEKE, C. D.
Advantages of Numerical Atmospheric Dispersion Calculations for Estimating Dispersal and Combination Effects of Stack Releases from the Nuclear Industry,
W76-09501 9-18 5A

WURBS, M.
Arizona State Water Plan, Phase I: Inventory of Resource and Uses,
W76-00700 9-02 6B

WURSCHING, F.
Experience with a Pilot Plant for the Irradiation of Sewage Sludge, Bacterial and Parasitological Studies AfterIrradiation.
W76-09548 9-18 5D

WUTHE, H. H.
Qualitative and Quantitative Salmonella Investigations and their Hygienic Valuation in Connection with E. Coli Titre, Demonstrated with Examples from the Coastal Waters of Kiel Bight (Western Baltic Sea), (In German),
W76-13140 9-24 5A

WYATT, J. C.
The Quest for Oil: A Decisive Force in the Law of the Arctic Sea Pertaining to Pollution,
W76-00969 9-02 6E

WYATT, J. T.
A Study of Oxygen-Nitrogen Balance in Waterbloom Outbreaks,
W76-04234 9-09 5C

WYATT, K.
Process for Treating Waste Water,
W76-11217 9-21 5D

WYCOFF, R. L.
Preliminary Hydrologic Design of Small Flood Detention Reservoirs,
W76-08731 9-16 8B

Urban Water Management and Coastal Wetland Protection in Collier County, Florida,
W76-07150 9-14 3D

WYDEVEN, T.
A Centrifugal Method for the Evaluation of Polymer Membranes for Reverse Osmosis,
W76-04186 9-09 5D

Water Purification Membranes and Method of Preparation,
W76-03171 9-07 5D

WYLIE, E. B.
Transient Aquifer Flows by Characteristics Method,
W76-08513 9-16 2F

WYLIE, K. F.
Turbulent Characteristics of Drag-Reducing Flows,
W76-12826 9-24 8B

WYLY, R. S.
Capacities of Stacks in Sanitary Drainage Systems for Buildings,
W76-02201 9-05 8B

Investigation of the Hydraulics of Horizontal Drains in Plumbing Systems,
W76-02218 9-05 8B

Review of Standards and Other Information on Thermoplastic Piping in Residential Plumbing,
W76-11603 9-21 8G

WYNVEEN, R. A.
Development of Instrumentation for a Water Processing Element,
W76-11666 9-22 5D

YACOUB, N. L.
In-Plant Hot-Gas Blanching of Vegetables,
W76-04743 9-10 3E

YADAV, S. C.
Water Requirement of Potato,
W76-07703 9-15

YADETA, B.
Continued Studies (Phase II) in the Search
A Predictive Model for Sludge Characteriza
Useful to Design and Control of Sludge
watering Processes in Water Recycle Syste
W76-11116 9-21

YAGER, H. L.
Quantitative Water Quality with ERTS-1,
W76-02052 9-05

YAGIHASHI, I.
Study on the Balance of Heavy Metals in
tivated Sludge Treatment Process (Gesui s
shisetsu ni okeru jukinzokurui no shushi ni
suru kenkyu),
W76-09222 9-17

YAGISHITA, A.
Plating Waste Recovery Unit,
W76-08478 9-16

YAGLOVA, L. G.
Diffusion of Mineral Ions Through the Wa
Nitella Cells,
W76-05477 9-11

YAGUCHI, E. M.
Plutonium Distribution in Lake Michigan Bi
W76-11287 9-21

YAHIA, T. A.
Effect of Sulfuric Acid on Water Movemen
Calcareous Soils,
W76-01124 9-03

Effect of Surface Applied Sulfuric Acid
Water Penetration into Dry Calcareous
Sodic Soils,
W76-05907 9-12

YAKOVLEV, S. V.
Biological Filters (Biologicheskie fil'try),
W76-10850 9-20

YAKOVLEVA, G. P.
Isolation of Salmonella from Sewage and S
face Waters, (In Russian),
W76-09411 9-18

YAKOWITZ, S.
A Direct Method for the Identification of
Parameters of Dynamic Nonhomogene
Aquifers,
W76-02943 9-06

YAKUBOVSKII, K. B.
Change of Some Physiological and Biochemi
Indices of Phragmites Communis Trin. w
Different Mineral Nutrition Under Experim
tal Conditions, (In Russian),
W76-02942 9-06

YALIN, M. S.
Time Growth of Tidal Dunes in a Physi
Model,
W76-10424 9-19

YAMADA, H.
On the Nitrogen Behavior in the Process
Ozone Treatment (Ozon shori ni okeru chis
no kyodo ni tsuite),
W76-03221 9-07

YAMADA, K.
Apparatus for Photo-Oxidation of Water,
W76-04287 9-09

Optimal Design Model for Waste Water Collection System (II) (Gesuidokan kiyo keikaiu no saitekika moderu to sono oyo (II)),
W76-05598 9-12 5D

AMADA, M.
Sewerage Project on Upstream Area of the Yamato River,
W76-09168 9-17 5D

AMAGUCHI, H.
Surveys on Radiation-Resistant Asporogenic Bacteria in Natural Environments,
W76-09519 9-18 5C

AMAGUCHI, M.
X-Ray Fluorescence Analysis of Trace Metals in Water by Means of Condensation Depending on Adsorption by Active Carbon (Kassei tan kyuchakuho ni yoru suichu biryo kinzoku genso no keiko X-sen bunseki),
W76-00612 9-02 5A

AMAMOTO, I.
The Control of Waste Water Flow of New Town into the Treatment Plant (Danchi gesuishorijo no ryunyusui no seigyo ni kansuru kenkyu),
W76-07012 9-14 5D

AMAMOTO, O.
The Forecasting, of Inflow Variation into the Waste Water Treatment Facility in the New Town, (In Japanese),
W76-01449 9-03 5D

AMAMOTO, S.
Environmental Surveys of Open-Ocean Dredge Material Disposal Sites,
W76-03644 9-08 5B

AMAMOTO, T.
Coal Mine Spoil as a Growing Medium: Amax Belle Ayr South Mine, Gillette, Wyoming,
W76-06364 9-13 5G

AMAMURA, K.
Treating Waste Water Containing Nitriles and Cyanides,
W76-07443 9-14 5D

AMANAKA, S.
High Ethylmercury in River Fish By Man-Made Pollution,
W76-03782 9-08 5B

AMANE, R.
Plan and Design of Sludge Treatment Facilities of Nishinagasawa Purification Plant, (In Japanese),
W76-00220 9-01 5F

AMAUCHI, H.
Compilation and Analysis of Water Quality Rights and Responsibilities in Hawaii,
W76-10001 9-19 5G

An Economic Analysis of the Patterns and Trends of Water Consumption Within the Service Areas of the Honolulu Board of Water Supply,
W76-00275 9-01 6D

AMAZAKI, H.
Plant for Industrial Water Pollution Control, (In Japanese),
W76-02799 9-06 5D

Process of Purifying Waste Water by Electrolysis,
W76-02604 9-06 5D

YAMAZAKI, Y.
Simultaneous Determination of Cu2+, Pb2+, Cd2+, and Zn2+ in Fresh Town-Water by Anodic Stripping Polargraphy, (In Japanese),
W76-08275 9-16 5A

YANAGI, F.
Treatment of Sludge From Sewerage and Burnt Ashes,
W76-00244 9-01 5E

YANAGI, T.
Tidal Residual Circulations in the Hydraulic Model,
W76-10431 9-19 2L

YANDLE, B.
Henry George, Property Rights and Environmental Quality: Classical Answers to 'New' Problems,
W76-01614 9-04 5G

YANDLE, T. BRUCE JR.
An Economic Evaluation of Water Quality Management Systems,
W76-04514 9-10 5G

YANG, C. T.
Applicability of Unit Stream Power Equation,
W76-12193 9-23 2J

Heat Assimilative Capacity of the Sangamon River,
W76-03142 9-07 5B

Incipient Motion and Sediment Transport,
W76-02877 9-06 2J

YANG, C. Y.
(Optimal Design for Wave Spectrum Estimates,
W76-02705 9-06 2L

YANG, H. C.
On the Extermination of Polyclads: Calcium Hypochlorite (CaOC12) Treatment in the Period of High Water Temperature, (In Korean),
W76-09801 9-18 5C

YANG, M. S.
An Evaluation of the Accumulation, Translocation, and Degradation of Pesticides at Land Wastewater Disposal Sites,
W76-03871 9-08 5B

YANG, P. Y.
Development of Instrumentation for a Water Processing Element,
W76-11666 9-22 5D

Evaluation of Methods for the Analysis of Physical, Chemical and Biochemical Properties of Poultry Wastewaters,
W76-00442 9-01 5D

YANGGEN, D. A.
Alternatives to Protect and Enhance Lakes,
W76-02648 9-06 5G

Nonstructural Measures for Flood Plain and Flood Damage Management, with Application to the Connecticut River Basin Supplemental Flood Management Study,
W76-01345 9-03 6F

YANKAVICHYUTE, Y.
The Role of Aquatic Plants in the Migration of Sr90 in Some Water Reservoirs of the Lithuanian SSR,
W76-06868 9-14 5B

YANKOVSKAYA, L. N.
Treatment of Wastewaters from Carbamide Resin Production (Ochistka stochnykh vod ot proizvodstva karbamidnoy smoly),
W76-04086 9-09 5D

YANKYAVICHYUS, K. K.
Development Aspects of Bacterial Flora Under Different Ecological Conditions, (In Russian),
W76-07284 9-14 5C

The Role of Aquatic Plants in the Migration of Sr90 in Some Water Reservoirs of the Lithuanian SSR,
W76-06868 9-14 5B

YANNOPOULOS, C.
Marine Ecology of the Northern Euboea: I. Preliminary Data on the Zooplankton and the Ichtyoplankton, (In French),
W76-08106 9-16 2L

YANO, K.
Surveys on Radiation-Resistant Asporogenic Bacteria in Natural Environments,
W76-09519 9-18 5C

YANO, M.
Method and Device for Attaching Shut-Off Control Valve to Distributing Water Pipe Such as Service Pipe Without Stopping Passage of Water Therethrough,
W76-09050 9-17 3F

YANYGINA, S. F.
Hygienic Standardization of DD and DDB Compounds in Water Bodies, (In Russian),
W76-02406 9-05 5B

YANYSHEVA, N. YA.
Standardization of the Content of Benzo(a)-Pyrene in Water Bodies, (In Russian),
W76-10351 9-19 5C

YAO, K. M.
Extended Plain Sedimentation,
W76-07204 9-14 5D

YAP, H. H.
In Vitro Inhibition of Fish Brain Atpase Activity by Cyclodiene Insecticides and Related Compounds,
W76-00874 9-02 5C

YARDLEY, D.
Biochemical Genetics of Sunfish III. Genetic Subdivision of Fish Populations Inhabitating Heated Waters,
W76-03481 9-07 5C

YARITA, T.
Determination of Organic Carbon in Water Using a PCO2 Electrode, (In Japanese),
W76-00607 9-02 5A

YARUSHINA, M. I.
Structure of the Plankton Community of Fish-Rearing Ponds of the Southern Urals, (In Russian),
W76-01700 9-04 8I

YASHIMA, T.
Correlation of Various Monitoring Items Regarding Pollution Substances of Human Wastes and Treated Water (Shinyo to sono shorisui no odaku sibun ni kansuru kakushu sokutei komoku kan no sokan ni tsuite),
W76-03342 9-07 5A

YASTREB, E. F.
Use of Electrodialysis in the Water Recycling System of Viscose Production (Primenenie

YASTREB, E. F.

elektrodializa v sisteme vodooborota viskoznogo proizodstva),
W76-10848 9-20 5D

YASUDA, H.
Tidal Residual Circulations in the Hydraulic Model,
W76-10431 9-19 2L

YASUTOME, K.
Effect of the Inorganic Coagulant for the Dyeing Waste Water Treatment with Ozone, (In Japanese),
W76-00122 9-01 5D

YATES, M. L.
Reference Guide to Methodology for the Analysis of Organic Compounds.
W76-07590 9-15 5A

YATSUZUKA, M.
Fem Coupled with LP for Water Pollution Control,
W76-11134 9-21 5B

YAZAR, O.
Effects of Selected Herbicides on Bacterial Populations in Nontreated and Treated Water,
W76-09369 9-17 5C

YAZYKOVA, I. M.
Contribution to Epizootology of Schistocephalus Pungitii (Ligulidae) in the Manych-Gudilo Lake, (In Russian),
W76-12273 9-23 5C

YEASTED, J. G.
PH Profiles in a River System with Multiple Acid Loads,
W76-07235 9-14 5B

YEE, E.
The Hawaiian Archipelago Defining the Boundaries of the State,
W76-07818 9-15 6E

YEE, P. P.
Performance of Pennsylvania Highway Drainage Inlets,
W76-03750 9-08 8B

YEFIMOVA, L. V.
Slope Runoff and Its Change Under the Effect of Agricultural and Forest Improvement Practices,
W76-05927 9-12 4C

YEH, G. T.
Analytical Three-Dimensional Transient Modeling of Effluent Discharges,
W76-12433 9-23 5B

Three-Dimensional Pollutant Modeling in Shear Flow,
W76-08740 9-16 5B

YEH, W. W-G.
Aquifer Parameter Identification,
W76-00650 9-02 2F

The Galerkin Method for Nonlinear Parabolic Equations of Unsteady Groundwater Flow,
W76-03129 9-07 2F

Operations Models for Central Valley Project,
W76-07237 9-14 4A

Optimal Identification of Parameters in an Inhomogeneous Medium with Quadratic Programming,
W76-03369 9-07 2F

Optimization of Real Time Daily Operation of a Multiple Reservoir System,
W76-12155 9-23 4A

A Proposed Algorithm for the Solution of the Large-Scale Inverse Problem in Groundwater,
W76-09850 9-18 2F

YEICH, B.
Adapting Industrial Processes for Multi-Purpose Industrial Port Islands,
W76-09378 9-17 5G

YEN, B. C.
Design of Storm Sewer Networks,
W76-02875 9-06 5D

Design of Storm Sewer Networks,
W76-03006 9-07 4A

Urban Stormwater Runoff: Determination of Volumes and Flowrates,
W76-12858 9-24 5B

YEN, Y-C.
An Approximate Analysis of Melting and Freezing of a Drill Hole Through an Ice Shelf in Antarctica,
W76-07550 9-15 2C

Heat Transfer Characteristics of a Bubble-Induced Water Jet Impinging on an Ice Surface,
W76-12998 9-24 2C

YENTSCH, C. M.
Influence of Temperature on the Photosynthetic Efficiency in Natural Populations of Marine Phytoplankton,
W76-02022 9-05 5C

Some of the Growth Characteristics of Gonyaulax Tamarensis Isolated from the Gulf of Maine,
W76-07617 9-15 5C

YENTSCH, C. S.
Influence of Temperature on the Photosynthetic Efficiency in Natural Populations of Marine Phytoplankton,
W76-02022 9-05 5C

Some of the Growth Characteristics of Gonyaulax Tamarensis Isolated from the Gulf of Maine,
W76-07617 9-15 5C

YESKE, L. A.
Horizontal Turbulent Energy Transfer Associated with a Great Lakes Coastal Current,
W76-02411 9-05 2H

YEVICH, P. P.
Morphological Anomalies in Adult Oysters, Scallop, and Atlantic Silversides Exposed to Waste Motor Oil,
W76-00138 9-01 5C

YEVJEVICH, V.
Analysis of Drought Characteristics by the Theory of Runs,
W76-04310 9-09 2E

Influence of Simplifications in Watershed Geometry in Simulation of Surface Runoff,
W76-11517 9-21 2A

YIH, S. M.
Identification in Nonlinear, Distributed Parameter Water Quality Models,
W76-04940 9-10 5B

YIM, S. K.
Quality and Quantity of Nonpoint Pollut Sources in Rural Surface Water Runoff Oahu, Hawaii,
W76-07583 9-15

YIP, J.
Recycling of Liquid Digested Sewage Slu on Dredged River Sand,
W76-10501 9-20

YOAKUM, R. L.
The Response of Larval Fish, Leioston Xanthurus, to Environmental Stress Follow Sublethal Cadmium Exposure,
W76-12732 9-24

YOCUM, C. H.
Multi-Tank Ion Exchange Water Treatm System,
W76-05975 9-12

YODA, T.
An Experiment of Rapid Filtration Throu Dual-Media Bed for Secondary Treatment fluents (Niso roka ni yoru niji shorisui no r jikken),
W76-00353 9-01

YOKEL, B. J.
Rookery Bay Land Use Studies, Environm tal Planning Strategies for the Development a Mangrove Shoreline, Study No. 3, Estuar Water Quality,
W76-05005 9-11

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W76-05006 9-11

YOKOMICHI, K.
Electric Equipment for Mukogawa Sewa Treatment Plant, Hyogo Prefecture (Hyogok mukogawa shorijo no denki setsubi),
W76-09000 9-17

YOKOTA, Y.
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W76-03820 9-08

YOKOYAMA, T.
Interaction Between Surfactant and Dye I Application of the Acridine Orange Method the Survey of Pollution of Alkylbenzene S fonate in Rivers and the Survey of Water Poll tion in Kinokawa,
W76-09364 9-17

YOKOYAMA, Y.
Process for Treating Waste Water Efflue Having Odours,
W76-00596 9-02

YONEDA, M.
Chemical Recovery Process for Spent Cooki Liquors,
W76-07523 9-15

YONG, R. N.
Unsaturated Flow Mechanisms in Lo Swelling Clays,
W76-04098 9-09

)O, K. H.
Factors Influencing the Loss of Nitrogen and Phosphorus from a Tract of Irrigated Land,
W76-13014 9-24 5G

)ON, Y. S.
The Galerkin Method for Nonlinear Parabolic Equations of Unsteady Groundwater Flow,
W76-03129 9-07 2F

)RGEY, W. B.
Updating an Existing Pollution Control Facility at Western Electric,
W76-08477 9-16 5D

)RK, D. W.
Multi-Objective Water Resources Planning: Methodology to Achieve Compatibility Between Environmental Amenities and Economic Development,
W76-05840 9-12 6B

)RKE, T. H.
Storm-Period Variables Affecting Sediment Transport from Urban Construction Areas,
W76-09840 9-18 2J

Ten Years of Experience with Automatic Pumping-Sediment Samplers,
W76-09843 9-18 7B

Urban-Area Sediment Yield--Effects of Construction-Site Conditions and Sediment-Control Methods,
W76-09841 9-18 4D

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Studies on Anion Active Surfactants. I. Determination of Anion Active Surfactants in Natural and Waste Waters Using Cleanup by XAD 2 Column Chromatography (In ion kaimen kasserzai ni kansuru kenkyu (Dai 1 po)),
W76-03710 9-08 5A

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Quality Control in Sewage Treatment Plant (Gesuishorijo no shishutsu seigyo),
W76-09205 9-17 5D

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Studies on the Treatment of Wastewater from Food Plants with Activated Carbons. Part I. Model Experiments on Adsorption of Typical Organic Compounds, (In Japanese),
W76-07708 9-15 5D

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Method and Apparatus for Treatment of Liquid Wastes,
W76-02261 9-05 5D

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A Few Considerations on the Measurement of Pore Size Distribution of Activated Carbon (Kasseitan no saikokei bunpu solutei ni kansuru [illegible] no kosatsu),
W76-06309 9-13 5D

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Sewage Purification Device (Osui joka sochi),
W76-00770 9-02 5D

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Surveys on Radiation-Resistant Asporogenic Bacteria in Natural Environments,
W76-09519 9-18 5C

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Tortuguero Bay Environmental Studies,
W76-12783 9-24 6G

YOST, E.
An Interdisciplinary Study of the Estuarine and Coastal Oceanography of Block Island Sound and Adjacent New York Coastal Waters,
W76-02050 9-05 7B

YOST, K. J.
Aerobic Sewage Treatment System,
W76-04617 9-10 5D

Aerobic Sewage Treatment System,
W76-08982 9-17 5D

Sewage Treatment System Including Effluent Evaporator,
W76-01541 9-04 5D

YOUNG, C. E.
Factors Affecting Adoption of Land Treatment of Municipal Waste Water,
W76-01329 9-03 5D

Factors Affecting Adoption of Land Treatment of Municipal Waste Water,
W76-03203 9-07 5D

Land Treatment Versus Conventional Advanced Treatment of Municipal Wastewater,
W76-04937 9-10 5D

YOUNG, D. A.
Clarifier Apparatus,
W76-10479 9-19 5F

YOUNG, D-L.
Steady Stratified Circulation in a Cavity,
W76-08136 9-16 2H

Studies of Florida Gulf Coast Salt Marshes Receiving Thermal Discharges,
W76-02024 9-05 5C

Total Metabolism of Thermally Affected Coastal Systems on the West Coast of Florida,
W76-02021 9-05 5C

YOUNG, D. R.
Modeling the Fates of Metals in Ocean-Discharged Wastewaters,
W76-11464 9-21 5B

Polychlorinated Biphenyls Off Southern California,
W76-10647 9-20 5C

YOUNG, G.
Mass Balance Measurements Related to Surface Geometry on Peyto Glacier, Alberta,
W76-01243 9-03 2C

YOUNG, G. C.
Method for Detecting and Locating Water-Producing Zones and/or Water Thief Zones in Subterranean Formations,
W76-07448 9-14 4B

YOUNG, G. J.
Approach to Glacier Mass-Balance Analysis Utilizing Terrain Characterization,
W76-10499 9-19 2C

YOUNG, G. K.
Decision Perspectives on Urban Storm Water Pollution,
W76-05509 9-12 5D

Decision Perspectives on Urban Storm Water Pollution,
W76-09207 9-17 5G

YOUNG, H.
Criteria for Determining Feasibility of Rural Water Supply Systems in Livestock Production Areas,
W76-02367 9-05 3F

YOUNG, H. W.
Geothermal Investigations in Idaho: Part 2. An Evaluation of Thermal Water in the Bruneau-Grand View Area, Southwest Idaho,
W76-02655 9-06 4B

Some Waste Treatment Problems in the Hide and Leather Industries,
W76-12424 9-23 5D

YOUNG, J. F.
Active Carbon: Dechlorination and the Adsorption of Organic Compounds,
W76-00113 9-01 5D

YOUNG, L. J.
Food from Sewage. It Can Be Done,
W76-02291 9-05 5D

YOUNG, P. N. W.
Determination of Ammonia-, Nitrate-, And Organic Nitrogen in Water and Waste Water with an Ammonia Gas-Sensing Electrode,
W76-03702 9-08 5A

YOUNG, R. A.
Efficient In-House Handling of Solid Waste,
W76-06224 9-13 5E

An Investigation into the Pretreatment and Effect of an Industrial Waste Water Derived from the Manufacture of Azo Dyes upon the Activated-Sludge Process,
W76-07516 9-15 5D

Systematic Design of Legal Regulations for Optimal Surface -Groundwater Usage - Phase 2,
W76-06551 9-13 4B

YOUNG, R. E.
Leaf Water Potential and Moisture Balance--Field Data,
W76-13011 9-24 2I

YOUNG, R. H. F.
Development of the University of Hawaii-Manoa Stream Gaging Station,
W76-11876 9-22 4A

Estimation of Urban Stormwater Quality in Kalihi Stream Drainage Basin, Oahu, Hawaii,
W76-01525 9-04 5B

Groundwater Pollution From Sanitary Landfill Leachate, Oahu, Hawaii,
W76-02733 9-06 5A

Land Disposal of Wastewater in Hawaii,
W76-01557 9-04 5E

Pollution Effects on Surface and Ground Waters, (Literature Review),
W76-05176 9-11 5B

YOUNG, R. J.
Animal Waste Management in Modern Production Systems,
W76-04414 9-09 5G

YOUNG, R. L.
Determination of Nitrate in Water Samples Using A Portable Polarographic Instrument,
W76-02506 9-06 5A

YOUNG, R. O.
Economics of the Use of Surface Condensers with Dry-type Cooling Systems for Fossil-Fueled and Nuclear Generating Plants,
W76-04544 9-10 5D

YOUNG, R. R.
Hindgut Microflora from Oil-Polluted Soft-Shell Clams,
W76-11969 9-22 5C

YOUNG, R. W.
Residue-Removal Methods for Pesticides and Industrial Chemicals Found in Aquatic Environments,
W76-05249 9-11 5A

YOUNG, T. W.
Effects of Nitrogen, Potassium and Irrigation on Yield and Quality of Lemon,
W76-06314 9-13 3F

YOUNG, W.
The Influence of Dissolved Oxygen Concentrations on Three Species on Water Mites (Hydracarina),
W76-06133 9-12 5C

YOUNGBLUTH, M. J.
Tortuguero Bay Environmental Studies,
W76-12783 9-24 6G

YOUNGNER, V. B.
Ecological and Physiological Implications of Greenbelt Irrigation,
W76-08840 9-17 5D

YOUNGS, E. G.
The Calculation of Steady-State Water-Table Heights in Drained Soils by Means of the Finite-Element Method,
W76-03743 9-08 2G

YOUNT, J. D.
The Effect of Nonremoval Clear-Cutting and Pine Reforestation of the Cation Composition of a Hardwood Forest Soil,
W76-10322 9-19 4C

Forest-Floor Nutrient Dynamics in Southern Appalachian Hardwood and White Pine Plantation Ecosystems,
W76-10309 9-19 5B

YOUSEF, A. N.
Effect of Salinization on Certain Soil Microflora,
W76-06582 9-13 5C

YOUSIF, F.
On some Problems of the Biological Control of Human Schistosomes in Egypt,
W76-06034 9-12 5C

Some Helminths of Bulinus Truncatus and Biomphalaria Alexandrina from the Irrigation System Near Cairo,
W76-06028 9-12 5A

YU, J. K.
The Utilization of Tree-Ring Data to Predict Hydrologic Properties of Semiarid Watersheds Near Tucson, Arizona,
W76-01113 9-03 2E

YU, S. L.
Assessing Unrecorded Organic Pollution from Agricultural, Urban, and Wooded Lands,
W76-01264 9-03 5B

YUASA, M.
Effluent Treatment Process (Abwasseraufbereitungsverfahren),
W76-12506 9-23 5D

YUNUS, AHMAD
A Problem in the Use of Insecticides in Paddy Fields in West Malaysia: A Case Study,
W76-00581 9-02 5B

YURASOVA, T. S.
Changes of the Groundwater Supply Conditions in Connection with Construction of Reservoirs (Based on Experience of the Gorki Reservoir, (In Russian),
W76-03804 9-08 5C

YURKIN, V. S.
Equipment for the Utilization of Salt-Containing Waste-Waters Generated in Metallurgical Plants (Ustanovka dlya utilizatsii solenykh stochnykh vod metallurgicheskogo zavoda),.
W76-04071 9-09 5D

YUROVA, E. I.
Specific Features of Phytoplankton in the Lower Course of the Irtysh River, (In Russian),
W76-12267 9-23 5C

ZABEK, S.
The Influence of Irrigation by Means of Dairy Plant Sewage Poured Out of Sprinkling Pipes on the Yields of Some Plants Cultivated on Sandy Soil at Laskowice Olawskie, (In Polish),
W76-07110 9-14 5D

ZACHER, B.
Experiments on Rapid Sand Filtration of Biological Sewage Treatment-Plant Effluents (Untersuchungen Ueber Das Verhalten von Schnell-Sandfiltern Bei der Filtration Eines Biologisch Gereinigten Klaeranlagenablaufs),
W76-10215 9-19 5D

ZACHMANN, D. W.
Comparisons of Calculated and Measured Capillary Potentials from Line Sources,
W76-07768 9-15 2G

ZACKRISSON, M.
Water Pollution in Connection with Bark Dumping (Vattenfororeningar i samband med barkdeponering),
W76-05726 9-12 5B

ZAGATTO, E. A.
Flow Injection Analysis. Part IV. Stream Sample Splitting and Its Application to the Continuous Spectrophotometric Determination of Chloride in Brackish Waters,
W76-09339 9-17 5A

ZAGHLOUL, N. A.
A Stable Numerical Model for Local Scour,
W76-05666 9-12 2J

ZAGNI, A. F. E.
Channel Flow Over Permeable Beds of Graded Spheres,
W76-08511 9-16 8B

ZAHKA, J. G.
Oil Spillage Monitoring, Sampling and Recovery Systems,
W76-10382 9-19 5B

ZAHUMENSKY, L.
Contribution to the Knowledge of the Algal Flora of a Fishpond in Bratislave-Zelezna Studnicka, (In Czech),
W76-07287 9-14 5C

ZAITSEV, YU. A.
Characteristics of the Radiation Condition Development of Eggs of Freshwater Fishes longing to Diffeent Ecological Groups, (In sian),
W76-02615 9-06

ZAITSIEV, V. A.
Oxidation of Acetone with Ozone in Aqu Media in the Treatment of Acetone-Conta Waste Water (Okisplienye atsietona ozon vodnykr skriedahr prumienitielno k obiez jivaniyou atsietonsodierjachtihr),
W76-05277 9-11

ZAJIC, J. E.
Bacterial Degradation and Emulsificatio No. 6 Fuel Oil,
W76-04060 9-09

ZAJICEK, O. T.
Quabbin Reservoir: A Study of Drought Water Demand,
W76-04682 9-10

ZALOSH, R. G.
A Numerical Model of Droplet Entrain From a Contained Oil Slick,
W76-03102 9-07

ZALTZMAN, R.
Assessment of Polyvinyl Chloride as a Pac ing Material for Distilled Sp (Enivronmental Impact Assessment),
W76-10722 9-20

ZAMAIMURADOVA, Z. M.
Some Data on Zooplankton of Reservoirs i Mary and Chardzhou Regions of the Turk SSR, (In Russian),
W76-10520 9-20

ZAMANMURAD, KH.
Evaporation from Highly Saline Soils in an perimental Plot in the Turkmen SSR, (In sian),
W76-09887 9-18

ZAMARAEV, A. G.
The Water Supply System of Soil and Nitr Loss with Runoff Waters in Noncherno Areas, (In Russian),
W76-09794 9-18

ZAMBON, G.
Prediction of the Effects of the Floodwate the Olona River in Ticino (Previsioni Sugli fetti Della Immissions Delle Acque Di P Dell' Olona in Ticino),
W76-01447 9-03

ZAMFIRACHE, R.
Dewatering of Sludges Generated in the Tr ment of Waste Waters Generated in Refine (Comportarea la deshidratare a namolu provenite de la tratarea apelor reziduale rafinarii),
W76-07502 9-15

ZAMOLOTCHIKOVA, S. A.
Variation of Geocryological Condit Beneath Dams Depending on Upper Temp ture Limits,
W76-02915 9-06

ZAMYSLOVA, S. C.
Hygienic Assessment of the Flotation Rea T-66 in the Water Bodies and its Maximum missible Concentration (Gigienicheskaya ot ka flotoreagenta T-66 v vode vodoemov i predel'no dopustimaya kontsentratsiya),
W76-03255 9-07

ND, S. M.
Solute Transport and Modeling of Water Quality in a Small Stream,
W76-08058 9-15 5B

NDER, K.
Sewage Lagoons for Final Treatment, Exemplified by Bad Harzburg (Nachlaerteiche Zur Weitergehenden Abwasserreinigung-Dargestellt Am Beispiel Bad Harzburg),
W76-01441 9-03 5D

NEVELD, J. R. V.
Spatial Distribution of the Index of Refraction of Suspended Matter in the Ocean,
W76-03882 9-08 2L

NEVELD, R. V.
Particle Size Distributions in a Region of Coastal Upwelling Analyzed by Characteristic Vectors,
W76-02697 9-06 5B

NZALARI, D.
Effect of Different Spring Soil Moisture Levels on Moisture Stress,
W76-09412 9-18 3F

POROZEC, A.
Hydrogeologic Evaluation of Solid Waste Disposal in South Central Wisconsin,
W76-01273 9-03 5G

RNETT, G. D.
Energy Requirements for Conventional and Advanced Wastewater Treatment,
W76-05702 9-12 5D

Sorption Capabilities of Soils for Phosphate Removal,
W76-10673 9-20 5D

RTMAN, R. E.
Diffusion and Mass Flow of Nitrate-Nitrogen to Plant Roots,
W76-10182 9-19 2G

RUBIN, G. P.
Study of the Effect of Iron on the Human Body and Living Conditions, (In Russian),
W76-09803 9-18 5C

RYTKIEWICZ, E. D.
Federal Environmental Laws and Regulations,
W76-03806 9-08 5G

SEDATELEV, A. A.
Biological Effects of Ru106 and J131 on Water Organisms,
W76-06885 9-14 5C

SLAVSKII, M. M.
On Phillips' Theory of Equilibrium Range in the Spectra of Wind-Generated Gravity Waves,
W76-12336 9-23 2H

TSEPILIN, A. I.
Intensification of Biological Purification of Effluents (Intensifikatsiya biologicheskoi ochistki stokov),
W76-11391 9-21 5D

TTERA, A.
The Application of Sequential Estimation Methods to Counts of Phytoplankton,
W76-05622 9-12 5A

UGG, W. S.
Inhibition of Salt Water Survival and Na-K-ATPase Elevation in Steelhead Trout (Salmo Gairdneri) by Moderate Water Temperatures,
W76-03778 9-08 5C

ZAUGOL'NIKOV, S. D.
Forecasting the Danger of Organic Compounds in the Environment, (In Russian),
W76-11734 9-22 5C

ZAVADSKAYA, I. G.
Effect of the Water Regime on the Heat-Resistance of Leaf Cells of Heat-Hardened Tradescantia Fluminensis Vell. Plants, (In Russian),
W76-09102 9-17 2I

ZAVOROVSKAYA, N. A.
Use of Infrared Spectroscopy for Determining Environmental Pollutants, (In Russian),
W76-12307 9-23 5A

ZAVRYYEV, A. V.
Pine Associations of the Dernovich Stretch of the Pripyat River Floodplain, (In Belorussian),
W76-01918 9-04 2I

ZAWACKI, C. S.
American Lobsters at Artificial Reefs in New York,
W76-07967 9-15 2L

Fish Investigations in Long Island Sound at a Nuclear Power Station Site at Shoreham, New York,
W76-12743 9-24 2L

ZAWADZKI, I. I.
On Radar-Raingage Comparison,
W76-05694 9-12 2B

Statistics of Raingage Data,
W76-05693 9-12 2B

ZAYTSEVA, E. A.
Slope Runoff and Its Change Under the Effect of Agricultural and Forest Improvement Practices,
W76-05927 9-12 4C

ZBYTNIEWSKI, Z.
Effect on Detergents and of Phospho-Gypsum on the Oxygen and Chlorophyll a Levels and on the Dry Weight of the Residue of Brackish Water Under Laboratory Conditions,
W76-01942 9-04 5C

ZECH, Y.
Design of a Stormwater Sewer by Nonlinear Programming--1,
W76-10034 9-19 5D

ZEFF, J. D.
UV-Ozone Oxidation/Sterilization Process,
W76-00243 9-01 5D

ZEIDERS, K. E.
Stagonospora Folicola, A Pathogen of Reed Canarygrass Spray-Irrigated with Municipal Sewage Effluent,
W76-06318 9-13 5E

ZEIDLER, R. B.
Coastal Dispersion of Pollutants,
W76-12843 9-24 5B

ZEIGLER, E. R.
Hydraulic Model Vortex Study-Grand Coulee Third Powerplant,
W76-08113 9-16 8B

ZEITOUN, M. A.
Optimizing A Petrochemical Waste Bio-oxidation System Through Automation,
W76-02503 9-06 5D

ZEITSCHEL, B.
The Plankton Tower. I. A Structure to Study Water/Sediment Interactions in Enclosed Water Columns,
W76-08446 9-16 5C

The Plankton Tower. II. Release of Nutrients from Sediments Due to Changes in the Density of Bottom Water,
W76-08447 9-16 5C

ZEKTSER, I. S.
Estimation and Mapping of the Rates of Fresh Ground-Water Renewal (Taking the Baltic Artesian Basin as an Example),
W76-04959 9-10 4B

ZELAZINSKI, J.
A Mathematical Model for Forecasting the Flow of the Sola River,
W76-00298 9-01 2A

ZELINKA, J.
Wichita Falls IMIS Project. Water Utility Processing System Application Evaluation Report,
W76-13040 9-24 3D

ZELINKA, M.
Production Conditions in Trout Brooks of Beskid Mountains: Results of Research Carried out Within the Framework of the I.B.P. in the Years 1966 to 1971,
W76-06241 9-13 2E

ZELLWEGER, G. W.
Solute Transport and Modeling of Water Quality in a Small Stream,
W76-08058 9-15 5B

ZEMRRZUSKI, T. J. JR.
Floodflow Characteristics at Proposed Bridge Site on Mohawk River in Towns of Frankfort and Schuyler, Herkimer County, New York,
W76-11079 9-20 4A

ZENER, C.
Solar Sea Power,
W76-12961 9-24 6B

ZENER, R. V.
Antitrust and Pollution Control: An EPA Perspective,
W76-01958 9-04 5G

ZENONE, C.
Ground-water Quality Beneath Solid-Waste Disposal Sites at Anchorage, Alaska,
W76-00656 9-02 5B

ZENZ, D. R.
Biological Nitrification of Sludge Supernatant by Rotating Disks,
W76-05800 9-12 5D

Nitrification of a High Ammonia Content Sludge Supernatant by Use of Rotating Discs,
W76-03228 9-07 5D

ZEPP, R. G.
Dynamic Behavior of Vinyl Chloride in Aquatic Ecosystems,
W76-07247 9-14 5C

ZERBE, R. O.
Optimal Environmental Jurisdictions,
W76-01398 9-03 6E

ZEREGA, J. J.
Corps Urban Planning in St. Louis-Maline Creek: An Interdisciplinary Effort,
W76-00074 9-01 3D

ZERMAN, P. J.
Nitrogen and Phosphorus Losses from Winter Disposal of Dairy Manure,
W76-08159 9-16 5C

ZERRES, H.
Phosphate Dependent Flocculant Dosage at Phosphorus Elimination From Communal Waste Water (Die Phosphatfracht-Abhaengige Faelimittel-Dosierung Bei Der Phosphor-Elimination Aus Kommunalem Abwasser),
W76-01446 9-03 5D

ZESENKO, A. Y.
On Th234 Accumulation by Marine Organisms,
W76-06898 9-14 5C

ZETLER, B.
Mode Tides,
W76-00905 9-02 2L

ZETTLER, F. W.
Biological Control of Water Weeds with Plant Pathogens,
W76-11904 9-22 4A

ZEWDE, E.
Groundwater Availability in Champaign County,
W76-10718 9-20 4B

ZEYBERLIKH, N. E.
Subsurface Waters of Erosion Troughs in the Aktyuba Region of the Ural - A Source of Drinking Water Supply,
W76-10943 9-20 2F

ZHDANKUS, N. T.
Hydraulics of Shallow Wells in Hard Rocks,
W76-00404 9-01 8B

ZHDANOVA, N. YA.
Waste-Water Biochemical Purification,
W76-07631 9-15 5D

ZHELEZNYAK, I. A.
Allowance for Precipitation and Runoff Fluctuation Patterns in Computing Water Withdrawal for Irrigation Systems in the Southern Ukraine,
W76-05675 9-12 4A

ZHELEZNYAK, M. I.
Dissipation of Turbulent Energy in a Natural Channel,
W76-08744 9-16 8B

ZHIDIKOV, A. P.
A Snowmelt Runoff Model and its Application to Short-Range Forecasting of Flood Discharges,
W76-12440 9-23 2C

ZHITENEVA, T. S.
Feeding of the Bronze Bream of the Gorki Reservoir in the Discharge Zone of the Kostroma State Regional Electric Power Plant, (In Russian),
W76-13199 9-24 5C

ZHUKOV, A. I.
Criteria for the Evaluation of the Efficiency of Secondary Settlers (Kriterii otsenki raboty vtorichnykh otstoyhikov),
W76-07002 9-14 5D

ZHURAVLEVA, V.I.
Interaction of Blue-Green Algae with Multiply-Charged Inorganic Cations, (In Russian),
W76-11746 9-22 5A

ZHURBA, M. G.
Development and use of Floating Filtering Materials in Water Filtration (Razrabotka i vnedrenie plavayushchikh zagruzok fil'trovaniya vody),
W76-01438 9-03 5F

ZICKEFOOSE, C.
Operations Manual Anaerobic Sludge Digestion,
W76-12700 9-24 5D

ZIEGLER, E. L.
Cadmium and Zinc Contents of Corn Leaf and Grain Produced by Sludge-Amended Soil,
W76-06304 9-13 5A

ZIEGLER, F. G.
Physical-Chemical and Biological Treatabihty Investigations and Process Design for a Tall Oil Waste Water,
W76-00049 9-01 5D

ZIEGLER, R. C.
Methods to Treat, Control and Monitor Spilled Hazardous Materials,
W76-01869 9-04 5G

Thickening of Sewage Sludge with Quaternary Ammonium Compounds and Magnetic Fields,
W76-11266 9-21 5D

ZIEGLER, S. J.
Implications of Selected Non-Point Source Pollution Regulations for U.S. Dairy Farms,
W76-07162 9-14 5G

ZIELINSKI, J.
Dissolved Oxygen Analyzer T-01 Analyzer. A Simple Apparatus for Electrochemical Determination of Dissolved Oxygen in Water (Tlenomierz T-01 uproszczony przyrzad elektrochemicznego oznaczania tleunu roxpuszczonego w roztworach wodnych),
W76-09688 9-18 5A

ZIELINSKI, P. B.
Enhanced Survival of Larval Grass Shrimp in Dilute Solutions of the Synthetic Polymer, Polyethylene Oxide,
W76-04920 9-10 5C

ZIELINSKI, R. A.
Radiochemical Determination of Very Low Concentrations of Nickel in Rocks and Minerals,
W76-02886 9-06 5A

ZIELINSKI, R. J.
Waste Treatment for the Pabst Brewery at Perry, Georgia,
W76-01640 9-04 5D

ZIELSKI, A.
Plant Associations of Lake Mieliwo and the Adjacent Peat Bogs in the Brodnica District, (In Polish),
W76-09099 9-17 2H

ZIEMAN, J. C.
Rookery Bay Land Use Studies, Environmental Planning Strategies for the Development of a Mangrove Shoreline, Study No. 10, Growth and Land Use, Study No. 11, Economic Implications of Land Development Alternatives, Study No. 12, A Simulation Modeling Approach to the Study of Development Alternatives,
W76-05009 9-11 5G

ZIEMBA, J. V.
Libby, McNeill Solves an Odor Problem,
W76-08502 9-16 5D

ZIETZ, I.
The Coastal Plains Regional Commission--U Geological Survey. Aeromagnetic-Aeroradio tivity Survey,
W76-13099 9-24

ZIETZ, U.
Determination of the Chemical Oxygen mand (COD) by Potassium Dichromate at V High Chloride Concentrations (Bestimmung Chemischen Sauerstoffbedarfs (CSB) Ge Kaliumdichromat Bei Sehr Hohen Chloridk zentrationen),
W76-10236 9-19

ZIGANSHINA, R. K.
Production of Some Mass Crustaceans of Kuibyshev Reservoir in the Region of Sviy Bay, (In Russian),
W76-07935 9-15

ZIKUNOV, V. M.
Experience with the Purification of Wa Water in Reservoirs (Opyt ochistki stochny vod v rezervuarakh),
W76-07538 9-15

ZILCH, H. E.
Method of Inhibiting Scale for High Tempe ture Steam Wells,
W76-11842 9-22

ZILLIOUX, E. J.
Studies on the Effects of Temperature on Laying of Three Species of Calanoid Copep in the Laboratory (Acartia Tonsa, Temora L gicornis, Pseudocalanus Elongatus),
W76-01927 9-04

ZIMBALEVSKAYA, L. N.
Productivity of Higher Hydrophytes and St of Phytophilic Invertebrates in the Kilia De of the Danube, (In Russian),
W76-07277 9-14

ZIMIN, I.
Computer Assisted Procedures in Water P ject Evaluation,
W76-01007 9-03

ZIMMER, D.
A Study of the Effects of Stream Channeli tion and Bank Stabilization on Warmwa Sport Fish in Iowa: Subproject 4: The Effe of Longreach Channelization on Habitat a Invertebrate in Some Iowa Streams,
W76-12231 9-23

ZIMMERER, A. L.
Corner Irrigation Machine,
W76-04267 9-09

ZIMMERMAN, J.
An Approach to Research Administration,
W76-12575 9-23

ZIMMERMAN, M. S.
Effects of Kraft Mill Effluents on Benti Macrophyte Assemblages in a Shallow-B System (Apalachee Bay, North Flori U.S.A.),
W76-10077 9-19

ZIMMERMAN, R. P.
Sulfide Oxidation: Sulfox System of Polluti Control,
W76-04784 9-10

ZIMMERMAN, S. S.
An Approach to Provision of Rural Water Su plies,
W76-03437 9-07

MERMANN, C.
ne Pelagic Rotatoria of the Sempachersee ith Special Regard to the Brachionidae and e Question of Nutrition, (In German),
76-02993 9-06 5C

MERMANN, K.
udies Concerning Oil Removal from Mill ale (Untersuchungen Zur Entoelung Von alzzunder),
76-08707 9-16 5D

GULA, R. P.
ffects of Drilling Operations on the Marine nvironment,
76-08909 9-17 5G

N, J. L.
emperature, Infectious Diseases, and the Im-une Response in Salmonid Fish,
76-11191 9-21 5C

NECKER, M. E.
-Plant Hot-Gas Blanching of Vegetables,
76-04743 9-10 3E

TEL, G. V.
zone Provides Alternative for Secondary Ef-uent Disinfection. Part 1,
76-09445 9-18 5D

zone Provides Alternative for Secondary Ef-uent Disinfection Part 2,
76-09715 9-18 5D

zone Provides Alternative for Secondary Ef-uent Disinfection Part 3,
76-11213 9-21 5D

INO, A.
easurement of the Apparent PH of Seawater ith a Combination Microelectrode,
76-02415 9-05 2L

KOWSKI, J.
in Erosion in Winter Flounder,
76-11809 9-22 5C

KO, V.
ccumulation of Thallium in Clams and Mus-ls,
76-04921 9-10 5C

ish Toxicity of S-Methyl Fenitrothion,
76-00338 9-01 5C

oxicity and Environmental Properties of hemicals used in Well-Drilling Operations,
76-08906 9-17 5C

RIDES, T. G.
xygen Treatment vs. High-BOD Sulfite Pulp-g Waste Water,
76-02463 9-05 5D

ERT, A. A.
lood Routing in Channel Systems with Al-wance for Bank Regulation,
76-05668 9-12 4A

I, S. M.
ield Observation of the Dynamics of Heated ischarge Jets,
76-12775 9-24 5B

ield Observations of the Dynamics of Heated ischarge Jets,
76-11307 9-21 5B

leasurements of Eddy Diffusivities in earshore Regions of Lake Michigan,
76-12772 9-24 5B

Measurements of Physical Phenomena Related to Power Plant Waste Heat Discharges: Lake Michigan, 1973 and 1974,
W76-12770 9-24 5B

Near Shore Lake Current Investigations,
W76-12774 9-24 5B

ZLOBIN, V. S.
Comparative Evaluation of the Accumulation Dynamics of Some Corrosion and Fission Group Radionuclides and Alpha Emitters by Northern Marine Algae,
W76-06893 9-14 5C

Mechanisms of Accumulation of Radioactive and Stable Sr by Northern Marine Algae Under Natural and Experimental Conditions,
W76-06892 9-14 5C

ZLOTNIKOV, A. B.
Cleaning of Industrial Effluent,
W76-08719 9-16 5D

ZMUDA, J.
The World's Largest Water Project,
W76-12023 9-22 4A

ZMUDZINSKI, L.
The Baltic Sea Pollution,
W76-11185 9-21 5C

Ecology of the Littoral Polychaete Streptosyllis Websteri, A New Species in the Baltic,
W76-11186 9-21 5B

ZNAMENSKIY, V. A.
Comparative Estimate of Energy Losses in Bodies of Water, and Quiet and Turbulent Flows,
W76-05924 9-12 8B

ZOBLER, L.
Water Quality Monitoring and River Basin Planning: A Critique and Some Recommendations,
W76-02378 9-05 5A

ZOELLNER, D. R.
Environmental Reconnaissance Techniques for Connecticut River Basin Watersheds,
W76-01344 9-03 4D

A Method for Applying Research to Environmental Planning and Management: A Case Study of Issues Important to the Chesapeake Bay Region,
W76-05434 9-11 6B

ZOETEMAN, J.
Cause and Identification of Taste and Odour Compounds in Water,
W76-06009 9-12 5A

ZOETL, J.
Application of Geochemical Principles, Isotopic Methodology, and Artificial Tracers to Karst Hydrology,
W76-07112 9-14 2F

ZOHAR, Y.
Effects of Flooding and of Irrigation Water Salinity on Eucalyptus Camaldulensis Dehn. From Three Seed Sources,
W76-09664 9-18 3C

ZOLOTOV, Y. A.
Extraction of Metals by Neutral Sulfur-Containing Extractants, Part I, O-Isopropyl-N-Ethylthiocarbamate,
W76-03641 9-08 5A

ZOLTOWSKI, P.
Pilot Scale Studies on Purification of Phenol Waste Waters by the Electrochemical Method (Badania Modelowe Oczyszczania Sciekow Fenolowych Metoda Elektrochemiczna),
W76-04782 9-10 5D

Studies of a Purification Model for Phenolic Wastes by Electrochemical Method (Badania Modelowe Oczyszczenia Sciekow Fenolowych Metoda Elektrochemiczna),
W76-05490 9-11 5D

ZONKER, A.
Alkalinity Calculations in Water,
W76-00599 9-02 2K

ZORKOCZY, I.
The Electrochemical Treatment of Industrial Waste Solutions and Sewage,
W76-06972 9-14 5D

ZOTEEVA, N. F.
Decontamination of Wastewaters at the Stage of Potassium Arabonate in the Production of Vitamin B2, (In Russian),
W76-08578 9-16 5D

ZOTIMOV, N. V.
Experimental Determination of Soil Moisture on Irrigated Lands from Radioactive Soil Emission,
W76-05401 9-11 2G

ZSOLNAY, A.
Determination of Aromatic and Total Hydrocarbon Content in Submicrogram and Microgram Quantities in Aqueous Systems by Means of High Performance Liquid Chromatography,
W76-10391 9-19 5A

Hydrocarbon Content and Chlorophyll Correlation in the Waters Between Nova Scotia and the Gulf Stream,
W76-10389 9-19 5B

ZUBARIK, I.
Biological Effects of Simulated Discharge Plume Entrainment at Indianpoint Nuclear Power Station, Hudson River Estuary, USA,
W76-09497 9-18 5C

ZUBCHENKO, I. A.
Ecology and Prospects of Using the Amphipod Gammarus (R.) Balcanicus Schaef, (In Russian),
W76-08410 9-16 2I

ZUBENOK, L. I.
Evaporation Deficit Under Various Climatic Conditions on Land,
W76-07075 9-14 2D

ZUBIETA, C. A.
The California Coastal Zone Conservation Act of 1972 (Proposition 20) and Comparable Land Use Limitations Affecting the Mineral Industry in Other States,
W76-04345 9-09 6E

ZUCCHETTI, P.
The Disposal of Wastes into the Sea of the Province of Rome (Italy), (In Italian),
W76-12570 9-23 5E

ZUCCHINI, W. S.
A Method of Finding the Family of Runhydrographs for Given Return Periods,
W76-12195 9-23 2E

ZUEHLS, E. E.
Hydrology of the Lake Wingra Basin, Dane County, Wisconsin.
W76-00667 9-02 2H

ZUERN, H. E.
Important Aspects of Phosphorus Analysis,
W76-10241 9-19 5A

ZUERN, L.
Purification of Waste Water from Styrene Bead Polymer Production,
W76-04083 9-09 5D

ZUEVA, G. S.
Waste Water Purification in Diazole Production (Ochistka stochnykh vod proizvodstva diazoley),
W76-04032 9-09 5D

ZUMBRUNN, J. P.
Process for Conditioning Effluent Contaminated by Aldehyde Compounds,
W76-05545 9-12 5D

ZUNKER, G. A.
'It's Our Water'--Can Wyoming Constitutionally Prohibit The Exportation of State Waters,
W76-03589 9-08 6E

ZURGARYAN, S. S.
Sewer Systems in the Communities Around Lake Sevan (Skhema kanalizatsii naselennykh mest, raspolozhennykh vokrug ozera Sevan),
W76-03195 9-07 5D

ZUZEL, J. F.
Snow: Nature's Reservoir,
W76-02412 9-05 2C

ZVIRIN, Y.
Interpretation of Internal Tracer Experiments and Local Sojourn Time Distributions,
W76-10039 9-19 5B

ZWERMAN, P. J.
Land Disposal of Potato Starch Processing Waste Water in the Netherlands,
W76-04748 9-10 5E

ZWOELFER, H.
Possibilities and Limitations in Biological Control of Weeds,
W76-09920 9-18 4A

ZYKOV, N. A.
Design and Results of Comparative Tests of a Rainfall Recorder Operating for a Week (WRR),
W76-05674 9-12 7B

ZYMON, W.
The Effect of Circulation Baffles on the Oxygenating Effect of Aerators Operating in Horizontal Position (Wplyw przegrody cyrkulacyjnej na efekty natleniania urzadzen pracujacych na wale w pozycji posiomej),
W76-03229 9-07 5F

Library of the Museum
of Comparative Zoology

ORGANIZATIONAL INDEX

CELLECO, TUMBA (SWEDEN).
SSIGNEE).
Straining Apparatus,
W76-06476 9-13 3E

ICOR, INC., CAMBRIDGE, MASS.
Reverse Osmosis Treatment of Electroplating Wastes,
W76-03066 9-07 5D

ICOR, INC., CAMBRIDGE, MASS. WALDEN ESEARCH DIV.
Treatment of Army M U S T Field Hospital Wastewater for Water Reuse,
W76-11270 9-21 5D

BERDEEN UNIV. (SCOTLAND).
Environmental Problems Associated with a Pipeline Landfall in Coastal Dunes at Cruden Bay, Aberdeenshire, Scotland,
W76-12223 9-23 5G

BERDEEN UNIV., (SCOTLAND). DEPT. OF HEMISTRY.
Membrane Processes for Water Treatment, Conclusion,
W76-00241 9-01 3A

BERDEEN UNIV. (SCOTLAND). DEPT. OF NGINEERING.
Local Erosion Caused by Rapid Forced Infiltration,
W76-03858 9-08 2J

Menabrea's Note on Waterhammer: 1858,
W76-06388 9-13 8B

BERDEEN UNIV., (SCOTLAND). DEPT. OF EOGRAPHY.
The Debris Content of Surging Glaciers in Svalbard and Iceland,
W76-07066 9-14 2C

Riverbank Forms of the Colville River Delta,
W76-11769 9-22 2L

BERDEEN UNIV. (SCOTLAND). SEABIRD ROUP.
Guillemots with Damaged Primary Feathers,
W76-11725 9-22 5C

Temperature and the Seasonal and Geographical Occurrence of Oiled Birds on West European Beaches,
W76-11823 9-22 5C

BO AKADEMI, TURKU (FINLAND). INST. OF IOLOGY.
The Influence of Embankments on the Primary Production of Phytoplankton in the Archipelago of Foglo, Aland,
W76-01940 9-04 5C

The Effects of Ferry Traffic on Rocky Shore Vegetation in the Southern Aland Archipelago,
W76-01949 9-04 5C

The Effects of Ferry Traffic on the Rocky Shore Macrofauna in the Southern Aland Archipelago: I. The Cladophora Zone,
W76-01950 9-04 5C

BT ASSOCIATES, INC., CAMBRIDGE, MASS.
The Relationship Between Social Psychological Systems and Water Resources Development: A Summary,
W76-05364 9-11 6B

Social Assessment Manual: A Guide to the Preparation of the Social Well Being Account,
W76-05993 9-12 6B

Water Pollution Control Act of 1972, Social Impacts, Eight Case Studies.
W76-10569 9-20 5G

ABWASSERTECHNIK UND KUNST STOFFBAU GMBH, WAIBLINGEN (EAST GERMANY). (ASSIGNEE).
Process and Installation for the Treatment of Water and Other Liquids,
W76-03515 9-08 3A

ABWASSERVERBAND AMPERGRUPPE, EICHENAU MUNICH (WEST GERMANY). PLANUNGS- UND BETRIEBSBUERO.
Experience with a Pilot Plant for the Irradiation of Sewage Sludge; Design, Operation Experience and Cost Calculations After 18 Months of Continuous Running,
W76-09546 9-18 5D

ACADEMIA DE STIINTE AGRICOLE SI SILVICE, BUCHAREST (RUMANIA).
The Effect of Certain Synthetic Macromolecular Substances on the Physico-Chemical Properties of Soil and on the Fertilizer Utilization Coefficient, (In French),
W76-08981 9-17 2G

ACADEMIA DE STUDII ECONOMICS, BUCHAREST (RUMANIA). DEPT. OF ECONOMIC CYBERNETICS.
Mathematical Model for Establishing the Overflow Spillway Discharges in the Flood Storage Ponds,
W76-01762 9-04 4A

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A Study of the Zooplankton from the Danube Mouth and From the Predelta Area During 1970 (In German),
W76-07301 9-14 5C

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Protection of Romanian Underground Water Fauna, (In Romanian),
W76-09085 9-17 2I

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Organochlorine Pesticide Residues in Cultured Fishes of Taiwan,
W76-07697 9-15 5C

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Relationship of Heavy Rainfall to Soil Erosion in View of its Forecasting, (In Bulgarian),
W76-09807 9-18 2J

ACADEMY OF AGRICULTURAL SCIENCES, SOFIA (BULGARIA). CENTRAL LAB. FOR AGROPHYSICAL INVESTIGATIONS.
Estimation of the Total Evaporation of Experimental Objects in Climatic Chambers, (In Bulgarian),
W76-06766 9-13 2D

ACADEMY OF MUNICIPAL ECONOMY, MOSCOW (USSR). RESEARCH INST. OF PUBLIC WATER SUPPLY, WATER PURIFICATION.
Drinking Water Purification in Industrially Manufactured Compact Installations of the Type 'Struya', (In English),
W76-08579 9-16 5F

ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA, AVONDALE, PA. STROUD WATER RESEARCH CENTER; AND ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA, PA. DEPT. OF LIMNOLOGY.
Bacterial Growth Rates and Temperature Optima in a Stream with a Fluctuating Thermal Regime.
W76-10886 9-20 5C

ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA, BENEDICT, MD. BENEDICT ESTUARINE LAB.
A Respirometer Technique for Evaluating the Potential Effects of Rapid Thermal Changes to Small Aquatic Organisms,
W76-01920 9-04 5C

ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA, PA.
Effects of Abnormal Temperatures on Algal Communities,
W76-03485 9-07 5C

Laboratory Simulation of Power Plant Effects: Response of Some Estuarine Phytoplankters to Time Temperature Combinations,
W76-08646 9-16 5C

ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA, PA. DEPT. OF LIMNOLOGY.
Savannah River Biological Survey, Lower Three Runs.
W76-08593 9-16 5C

Savannah River Biological Survey.
W76-08594 9-16 5C

Biological Survey of the Savannah River in the Vicinity of the Savannah River Project. Part I - Report on the Work Done and Tentative Conclusions on the Summer Survey,
W76-10041 9-19 5C

Biological Survey of the Savannah River in the Vicinity of the Savannah River Project, Part II - Report on Work Done and Tentative Conclusions on the Fall Survey,
W76-10042 9-19 5C

Biological Survey of the Savannah River in the Vicinity of the Savannah River Project. Part III - Report on the Work Done and Tentative Conclusions on the Winter Survey,
W76-10043 9-19 5C

Savannah River Biological Survey, South Carolina and Georgia, August, 1954.
W76-10044 9-19 5C

Considerations on the Effects of High Temperatures on Algae and Fishes, A Literature Review, 1954,
W76-10055 9-19 5C

ACADEMY OF NATURAL SCIENCES, PHILADELPHIA, PA.
Water Pollution Control Act of 1972, Environmental Impact Assessment, Potomac River.
W76-11782 9-22 5G

ACCU-LABS RESEARCH, INC., WHEATRIDGE, COLO.
The Application of Spark Source Mass Spectrometry to the Analysis of Water Samples,
W76-06945 9-14 5A

ACKENHEIL AND ASSOCIATES GEO SYSTEMS, INC., PITTSBURGH, PA.
Evaluation of Pollution Abatement Techniques Applicable to Lost Creek and Brown's Creek Watershed, West Virginia.
W76-06570 9-13 5G

ACRES CONSULTING SERVICES LTD., NIAGARA FALLS (ONTARIO).
A Simulation Model for Operating a Multipurpose Multireservoir System,
W76-08099 9-15 4A

The Halton-Wentworth Waterfront Study, Volume 1, Concepts for Waterfront Development (Summary).
W76-08382 9-16 6B

Scaling and Sizing Criteria for Thermal-Hydraulic Models,
W76-10437 9-19 5B

Assessment of the Effects of Waste Heat Inputs on Water Budgets of the Great Lakes,
W76-11305 9-21 5C

ACRES CONSULTING SERVICES LTD., VANCOUVER (BRITISH COLUMBIA).
$10-Million Aggregate Plant Recycles Process Water,
W76-12414 9-23 5D

ACTIVOX, INC., NEW YORK. (ASSIGNEE).
Process for Total Sewage Treatment,
W76-00584 9-02 5D

ADAM MICKIEWICZ UNIV., POZNAN (POLAND). INST. OF GEOGRAPHY.
Investigations on the Microbial Reduction of Sulphates,
W76-05054 9-11 5D

ADELAIDE UNIV., (AUSTRALIA). DEPT. OF BOTANY.
An Electron Microscope Autoradiographic Investigation of the Accumulation of Zinc-65 by a Species of Eutreptia,
W76-03308 9-07 5A

ADELAIDE UNIV. (AUSTRALIA). DEPT. OF ZOOLOGY.
Toxicity Bioassays of Cadmium on Selected Freshwater Invertebrates and the Interaction of Cadmium and Zinc on the Freshwater Shrimp, Paratya Tasmaniensis Riek,
W76-07700 9-15 5C

ADI LTD., FREDERICTION (NEW BRUNSWICK).
Septic Tank Efficiency,
W76-12640 9-23 5D

ADI LTD., FREDERICTON (NEW BRUNSWICK).
Efficiency of a Septic Tile System,
W76-11631 9-22 5D

ADOLPH COORS CO., GOLDEN, COLO.
Ground-Water and Surface-Water Relationships in the Glacial Province of Northern Wisconsin - Snake Lake,
W76-12444 9-23 5G

ADRIAN CONSTRUCTION CO., DAYTON, OHIO. (ASSIGNEE).
Method and Apparatus for Treating a Continuous Flow of Fluid Waste Products and Other Materials,
W76-08993 9-17 5D

AEROJET ELECTROSYSTEMS CO., AZUSA, CALIF.
Development of a Prototype Airborne Oil Surveillance System, Final Report,
W76-09898 9-18 5A

AEROJET-GENERAL CORP., EL MONTE, CALIF. (ASSIGNEE).
Buffered, Weak Ion-Exchange Water Demineralization Process,
W76-05526 9-12 3A

Solid Mineral and Regenerant Recovery for Ion-Exchange Resins,
W76-08199 9-16 3A

AEROMETRIC RESEARCH, INC., GOLETA, CALIF.
Large Scale Effects of Cloud Seeding,
W76-06562 9-13 3B

AEROSPACE MEDICAL RESEARCH LAB., WRIGHT-PATTERSON AFB, OHIO.
Water Reuse in the United States,
W76-10260 9-19 5D

AG INTERNATIONAL, HOUSTON, TEX. (ASSIGNEE).
Drip Irrigation Tap and System,
W76-03514 9-08 3F

AGENCY FOR INTERNATIONAL DEVELOPMENT, WASHINGTON, D.C.
Agriculture's Place in the Environment: Considerations for Decision Making,
W76-00988 9-02 5C

AGENCY OF ENVIRONMENTAL PROTECTION, CHARLOTTENLUND, DENMARK. FISHERY LAB.
Phenolic Acids as Indicators of Pollution with Liquid Manure. A Method for Their Detection,
W76-03979 9-08 5A

AGENCY OF INDUSTRIAL SCIENCE AND TECHNOLOGY, TOKYO (JAPAN).
Closed System and the Modern Technology (Kurozudo shisutemu to gendai gijutsu),
W76-07624 9-15 5D

AGFA-GEVAERT N. V., MORTSEL (BELGIUM).
Switching Value for Continuous Filtering Devices,
W76-00586 9-02 8C

AGRICULTURAL DEVELOPMENT AND ADVISORY SERVICE, WOLVERHAMPTON (ENGLAND).
Use of Sewage Sludge on Agricultural Land and the Effects of Metals on Crops,
W76-06339 9-13 5C

AGRICULTURAL RESEARCH AND EDUCATION CENTER, BELLE GLADE, FLA.
Water Repellent Soil Mulch for Reducing Fertilizer Nutrient Leaching: II. Variables Governing the Effectiveness of a Siliconate Spray,
W76-00719 9-02 3C

Disposal of Cattle Feedlot Waste in an Anaerobic Lagoon on the Organic Soils of South Florida--Preliminary Results,
W76-10540 9-20 5E

AGRICULTURAL RESEARCH AND EDUCATION CENTER, LAKE ALFRED, FLA.
Low Pressure Jet Cleaning of Plastic Drains in Sandy Soil,
W76-01569 9-04 8B

Effects of Nitrogen, Potassium and Irriga on Yield and Quality of Lemon,
W76-06314 9-13

Antitranspirant Sprays Affecting Fruit Siz Early Amber Peaches,
W76-10725 9-20

Irrigation with Citrus Waste Water,
W76-11699 9-22

AGRICULTURAL RESEARCH CENTER, FC LAUDERDALE, FLA.
Assessing a Marsh Environment for W water Renovation,
W76-00892 9-02

Phosphorus Removal from Static Sewage fluent Using Duckweed,
W76-05775 9-12

Carissa Dieback: Etiology Suggests Contro
W76-11513 9-21

AGRICULTURAL RESEARCH CENTER, JA FLA.
Agronomic and Cattle Studies with Muni Liquid Digested Sludge,
W76-09367 9-17

AGRICULTURAL RESEARCH COUNCIL, CAMBRIDGE (ENGLAND). UNIT OF SOIL PHYSICS.
The Hysteresis in the Relationship Bet Hydraulic Conductivity and Soil Water tent,
W76-03754 9-08

AGRICULTURAL RESEARCH COUNCIL, KIDLINGTON (ENGLAND). WEED RESEA ORGANIZATION.
Recent Trends in Weed Control in Freshwa
W76-09921 9-18

AGRICULTURAL RESEARCH COUNCIL, LANGFORD (ENGLAND). MEAT RESEARC INST.
Utilisation of Blood,
W76-08166 9-16

AGRICULTURAL RESEARCH ORGANIZATION, DOR (ISRAEL). DIV. OF FORESTRY.
Drought Tolerance of Pine Seedlings U Various Climatic Conditions,
W76-00712 9-0

AGRICULTURAL RESEARCH ORGANIZATION, DOR (ISRAEL). FISH AN AQUACULTURE STATION.
Ichthyophthiriasis in the Mirror Carp: II. kocyte Response,
W76-01410 9-0

Some Effects of Stocking Fish in Waste T ment Ponds,
W76-02326 9-05

Wastewater Utilization in Integrated Aqu ture and Agriculture Systems,
W76-03543 9-08

Genetic Differences in Susceptibility to Diseases Among Strains of the Common C
W76-06764 9-13

Ichthyophthiriasis in the Mirror Carp Cyp Carpio (L.): IV. Physiological Dysfunction
W76-07261 9-14

Ichthyophthiriasis in the Mirror Carp Cyp Carpio (L): V. Acquired Immunity,
W76-07262 9-14

ICULTURAL RESEARCH
ANIZATION, DOR (ISRAEL). FISH AND
ACULTURE STATION; AND MINISTRY
GRICULTURE, DOR (ISRAEL). DEPT. OF
ERIES.
bliography on Nutritional Requirements of
arm Water Fishes (Bibliographie Sur Les
soins Nutritifs Des Poissons Vivant en Eaux
audes),
76-01915 9-04 2I

ICULTURAL RESEARCH SERVICE,
S, IOWA.
ater Uptake by Cotton Root Systems: An Ex-
ination of Assumptions in the Single Root
odel,
76-00306 9-01 2I

ICULTURAL RESEARCH SERVICE,
ENS, GA. SOUTHEAST WATERSHED
EARCH CENTER.
ntinuous Seasonal Probability of Extreme
infall Events,
76-05692 9-12 2B

ICULTURAL RESEARCH SERVICE,
URN, ALA.
ater Relations of Cotton. I. Root Growth and
ater Use as Related to Top Growth and Soil
ater Content,
76-00824 9-02 3F

sposal of Dairy Cattle Manure on Soil,
76-07201 9-14 5D

fect of Soil-Incorporated Dairy Cattle
anure on Runoff Water Quality and Soil Pro-
rties,
76-10539 9-20 5B

ICULTURAL RESEARCH SERVICE,
URN, ALA.; AND ALABAMA
ICULTURAL EXPERIMENT STATION,
URN.
af Water Potential and Moisture Balance--
eld Data,
76-13011 9-24 2I

ICULTURAL RESEARCH SERVICE,
ON ROUGE, LA.
gradation of DDT in an Everglades Muck as
fected by Lime, Ferrous Iron and
naerobiosis,
76-12254 9-23 5B

ICULTURAL RESEARCH SERVICE,
TSVILLE, MD.
me Small-Scale Characteristics of Extreme
orm Rainfalls in Small Basins,
76-00301 9-01 2B

clamation of Soils Contaminated with
dioactive Strontium,
76-05906 9-12 5G

ICULTURAL RESEARCH SERVICE,
TSVILLE, MD. AGRICULTURAL
INEERING RESEARCH DIV.
ate Regulations Pertaining to Livestock
edlots,
76-00451 9-01 5G

ICULTURAL RESEARCH SERVICE,
TSVILLE, MD. AGRICULTURAL
IRONMENTAL QUALITY INST.
fect of Sewage Sludge on Some Soil Physical
operties,
76-06331 9-13 5E

tention of Metals in Sewage Sludge II: Incor-
rated Radioisotopes,
76-10006 9-19 5A

AGRICULTURAL RESEARCH SERVICE, BELTSVILLE, MD.; AND ANIMAL AND PLANT HEALTH INSPECTION SERVICE, BELTSVILLE, MD.
Pathogenic Microorganisms in the Environment,
W76-07156 9-14 5C

AGRICULTURAL RESEARCH SERVICE, BELTSVILLE, MD. BIOLOGICAL WASTE MANAGEMENT; AND AGRICULTURAL RESEARCH SERVICE, BELTSVILLE, MD. SOIL NITROGEN LAB.
A Forced Aeration System for Composting Wastewater Sludge,
W76-11200 9-21 5E

AGRICULTURAL RESEARCH SERVICE, BELTSVILLE, MD. BIOLOGICAL WASTE MANAGEMENT LAB.
Trench Incorporation of Sewage Sludge in Marginal Agricultural Land,
W76-02072 9-05 5D

AGRICULTURAL RESEARCH SERVICE, BELTSVILLE, MD. HYDROGRAPH LAB.
An Optimization Technique Adapted to USDAHL-74 Revised Model of Watershed Hydrology,
W76-08523 9-16 2A

Plot-Derived Parameters for Basin Computations,
W76-12438 9-23 2A

AGRICULTURAL RESEARCH SERVICE, BELTSVILLE MD. HYDROGRAPH LAB.; AND AGRICULTURAL RESEARCH SERVICE, BELTSVILLE, MD. PLANT PHYSIOLOGY INST.
Root Depth as a Sensitive Parameter in a Deterministic Hydrologic Model,
W76-01846 9-04 2I

AGRICULTURAL RESEARCH SERVICE, BIG SPRING, TEX.
Consider the Plant in Planning Wind Erosion Control Systems,
W76-06928 9-14 4D

AGRICULTURAL RESEARCH SERVICE, BOISE, IDAHO. NORTHWEST WATERSHED RESEARCH CENTER.
Sediment Yield from Southwest Idaho Rangeland Watersheds,
W76-01086 9-03 2J

Snow: Nature's Reservoir,
W76-02412 9-05 2C

Model for Predicting Evapotranspiration from Native Rangelands in the Northern Great Plains.
W76-11742 9-22 2D

AGRICULTURAL RESEARCH SERVICE, BRAWLEY, CALIF.
High Rate Sprinkling of a Low Intake Soil,
W76-01069 9-03 3F

AGRICULTURAL RESEARCH SERVICE, BRAWLEY, CALIF. IMPERIAL VALLEY CONSERVATION RESEARCH CENTER.
Field Leaching by Sprinkler and Surface Irrigation During a Crop Season,
W76-01081 9-03 4B

High-Pressure Water Jet Cleaning of Subsurface Drains,
W76-01564 9-04 8C

Salt and Water Balance in Imperial Valley, California,
W76-08331 9-16 3C

Drain Envelope Response to Field Treatments,
W76-08548 9-16 4A

AGRICULTURAL RESEARCH SERVICE, BUSHLAND, TEX.
Water Retention by Core and Sieved Soil Samples,
W76-08802 9-17 2G

AGRICULTURAL RESEARCH SERVICE, BUSHLAND, TEX.; AND SOUTHWESTERN GREAT PLAINS RESEARCH CENTER, BUSHLAND, TEX.
Surface Residue, Water Application, and Soil Texture Effects on Water Accumulation,
W76-09258 9-17 2G

AGRICULTURAL RESEARCH SERVICE, BYRON, GA.
Nitrogen Flux into Corn Roots as Influenced by Shoot Requirement,
W76-11519 9-21 3F

AGRICULTURAL RESEARCH SERVICE, CHEYENNE, WYO.
Nitrate Movement and its Distribution in the Soil Profile of Differentially Fertilized Corn Watersheds,
W76-06401 9-13 5B

Effect of Coal Mulch on Crop Yields,
W76-11926 9-22 3F

AGRICULTURAL RESEARCH SERVICE, CHICKASHA, OKLA.
A Dual-Interval, Light-Activated Signal Generator--Its Application to Sediment Sampling,
W76-00543 9-02 2J

Classifying Storm Runoff Potential with Passive Microwave Measurements,
W76-01306 9-03 7B

Measuring Watershed Runoff Capability with ERTS Data,
W76-02031 9-05 7C

Implications of Floodwater-Retarding Structures,
W76-04977 9-10 4A

On-Site Runoff Depletion at Three Impoundments,
W76-08122 9-16 4A

AGRICULTURAL RESEARCH SERVICE, CHICKASHA, OKLA. SOUTHERN GREAT PLAINS WATERSHED RESEARCH CENTER.
Investigation of Use of Space Data in Watershed Hydrology,
W76-08326 9-16 4A

AGRICULTURAL RESEARCH SERVICE, CHICKASHA, OKLA. SOUTHERN PLAINS BRANCH.
Floodwater Retarding Structure Yield Impact,
W76-12978 9-24 4A

AGRICULTURAL RESEARCH SERVICE, COLUMBIA, MO.
Sampling Procedures for Nitrogen and Phosphorus in Runoff,
W76-04681 9-10 5A

Sampling and Calculation Methods for Determining Quantities of Nitrogen and Phosphorus in Watershed Runoff,
W76-12372 9-23 5A

AGRICULTURAL RESEARCH SERVICE, COLUMBIA, MO. NORTH CENTRAL REGION.
Soil Water,
W76-01111 9-03 2G

AGRICULTURAL RESEARCH SERVICE, COLUMBIA, MO. NORTH CENTRAL REGION WATERSHED RESEARCH CENTER.
Soil Water Modeling I: A Generalized Simulator of Steady, Two-Dimensional Flow,
W76-10933 9-20 2G

AGRICULTURAL RESEARCH SERVICE, COLUMBIA, MO. NORTH CENTRAL WATERSHED CENTER.
Controlling Reservoir Trap Efficiency,
W76-06682 9-13 8B

AGRICULTURAL RESEARCH SERVICE, COSHOCTON, OHIO.
No-Tillage System Reduces Erosion from Continuous Corn Watersheds,
W76-01078 9-03 2J

A Watershed Soils Index of Runoff Potential,
W76-01848 9-04 2G

AGRICULTURAL RESEARCH SERVICE, COUNCIL BLUFFS, IOWA. NORTH CENTRAL WATERSHED RESEARCH CENTER.
Soil and Water Conservation with Western Iowa Tillage Systems,
W76-08805 9-17 4D

AGRICULTURAL RESEARCH SERVICE, DANVILLE, VT.
Recognition and Prediction of Runoff-Producing Zones in Humid Regions,
W76-07073 9-14 2E

AGRICULTURAL RESEARCH SERVICE, DELAWARE, OHIO. SHADE TREE ORNAMENTAL PLANTS LAB.
Effect of Moisture Stress on Red Maple Seedlings from Different Seed Sources,
W76-01196 9-03 2D

AGRICULTURAL RESEARCH SERVICE, DURANT, OKLA. QUALITY MANAGEMENT LAB.
Land Surface Erosion and Rainfall as Sources of Strontium-90 in Streams,
W76-00830 9-02 5B

AGRICULTURAL RESEARCH SERVICE, DURANT, OKLA. WATER QUALITY MANAGEMENT LAB.
Nutrient and Sediment Discharge from Agricultural Watersheds in Oklahoma,
W76-01116 9-03 2A

Design Runoff Volume from Feedlots in the Southwestern Great Plains,
W76-07195 9-14 5B

Effect of Cattle Feedyard Runoff on Soil Infiltration Rates,
W76-10538 9-20 5B

AGRICULTURAL RESEARCH SERVICE, FLORENCE, S. C. COASTAL PLAINS SOIL AND WATER CONSERVATION RESEARCH CENTER.
Crop Response to Chiseling and Irrigation in Soils with a Compact A2 Horizon,
W76-09985 9-18 3F

Corn Plant Water Stress as Influenced by Chiseling, Irrigation, and Water Table Depth,
W76-11503 9-21 3F

Tillage, Matric Potential, Oxygen and Millet Yield Relationships in a Layered Soil,
W76-13022 9-24 3F

AGRICULTURAL RESEARCH SERVICE, FORT COLLINS, COLO.
Controlling Center Pivot Sprinklers for Experimental Water Application,
W76-01080 9-03 7B

Animal Wastes and Fertilizers as Potential Sources of Nitrate Pollution of Water,
W76-01377 9-03 5B

Pollution Abatement from Cattle Feedlots in Northeastern Colorado and Nebraska,
W76-02762 9-06 5D

The Watershed Approach to Understanding our Environment,
W76-06311 9-13 5G

The Environmental Impact of Fertilizers,
W76-07100 9-14 5B

Eutrophication of Microponds,
W76-08354 9-16 5C

Drought Resistance Characteristics of Blue Grama Seedlings,
W76-11505 9-21 2I

Drought Resistance of Blue Grama as Affected by Atrazine and N. Fertilizer,
W76-13122 9-24 2I

AGRICULTURAL RESEARCH SERVICE, FRESNO, CALIF.
Ground-Water Recharge Rates from Thermometry,
W76-00294 9-01 4B

AGRICULTURAL RESEARCH SERVICE, FRESNO, CALIF. WATER MANAGEMENT RESEARCH.
Lead, Zinc, and Copper in Soils of Urban Storm-Runoff Retention Basins,
W76-00307 9-01 5A

Filter-Pack Installation and Redevelopment Techniques for Shallow Recharge Shafts,
W76-03527 9-08 4B

AGRICULTURAL RESEARCH SERVICE, FRESNO, CALIF. WATER MANAGMENT RESEARCH.
Hammer Seismic Timing as a Tool for Artificial Recharge Site Location,
W76-02556 9-06 4B

AGRICULTURAL RESEARCH SERVICE, FT. COLLINS, COLO.
Beef Cattle Feedlots: Impact on Underlying Soil,
W76-11047 9-20 5B

AGRICULTURAL RESEARCH SERVICE, GAINESVILLE, FLA.
Small Tensiometers for Field and Laboratory Studies,
W76-00733 9-02 2G

AGRICULTURAL RESEARCH SERVICE, KIMBERLY, IDAHO. SNAKE RIVER CONSERVATION RESEARCH CENTER.
The Influence of Soil Crusts on Heat and Water Storage,
W76-00524 9-02 2G

Automated Valves for Surface Irrigation Pipelines,
W76-01120 9-03 4A

Mechanical Snake River Undisturbed Soil Sampler,
W76-01272 9-0

Conservation of Sediment in Irrigation Ru
W76-01693 9-0

Soil Water Hysteresis: Temperature and sure Effects,
W76-03110 9-0

Soil Water Uptake by Alfalfa,
W76-11504 9-2

AGRICULTURAL RESEARCH SERVICE, LARAMIE, WYO. CROPS RESEARCH DIV
Herbicides as Antipollutants,
W76-11150 9-2

AGRICULTURAL RESEARCH SERVICE, CRUCES, N. MEX. JORNADA EXPERIME RANGE.
Semiarid Rangeland Treatment and Surfa noff,
W76-13130 9-2

AGRICULTURAL RESEARCH SERVICE, LINCOLN, NEB.
Beef Feedlots - A Pollution Problem,
W76-12358 9-2

AGRICULTURAL RESEARCH SERVICE, LINCOLN, NEBR.
Hydrology and Characteristics of Feedl noff,
W76-00435 9-0

Runoff Control for a Creek Bank Feedlot,
W76-00454 9-0

Nebraska Animal Waste Research,
W76-00455 9-0

Think of Manure as a Resource, not A Wa
W76-00459 9-0

Disposal of Effluent from a Beef Cattle Fe Runoff Control Holding Pond,
W76-04290 9-0

Direct Land Disposal of Feedlot Runoff,
W76-07183 9-14

Irrigation System Management for Red Peak Electrical Demands,
W76-08549 9-16

Quality Variation of Feedlot Runoff in Sto
W76-10549 9-20

Large Commercial Feedlots - How Waste Handled in the West,
W76-11048 9-20

Low-Cost Disposal Systems for Feedlot noff,
W76-12346 9-23

Riser Intake Designs for Feedlot Solids Co tion Basins,
W76-12356 9-23

AGRICULTURAL RESEARCH SERVICE, LINCOLN, NEBR. AGRICULTURAL ENGINEERING RESEARCH DIV.
An Analysis of Beef Cattle Feedlot Design Pollution Control,
W76-00457 9-01

AGRICULTURAL RESEARCH SERVICE, LINCOLN, NEBR. NORTH CENTRAL REGI
Power Factors and Electrical Demands Center-Pivot Irrigation Machines,
W76-08770 9-17

AGRICULTURAL RESEARCH SERVICE, MANDAN, N. D. NORTHERN GREAT PLAINS RESEARCH CENTER.
Water use by Dryland Corn as Affected by Maturity Class and Plant Spacing,
W76-13124 9-24 3F

AGRICULTURAL RESEARCH SERVICE, MANDAN, N. DAK. NORTHERN GREAT PLAINS RESEARCH CENTER.
Effect of Irrigation and Water-Table Depth on Crop Yields,
W76-00837 9-02 3F

AGRICULTURAL RESEARCH SERVICE, MANHATTAN, KANS.
Soil Detachment From Clods by Simulated Rain and Hail,
W76-00030 9-01 2J

Wind Erosion: Uniformly Spacing Nonerodible Elements Eliminates Effects of Wind Direction Variability,
W76-03127 9-07 4D

Techniques for Improving Tree Survival and Growth in Semiarid Areas,
W76-10175 9-19 2I

AGRICULTURAL RESEARCH SERVICE, MANHATTAN, KANS. NORTH CENTRAL REGION.
Wind Erosion: The Protective Role of Simulated Standing Stubble,
W76-09247 9-17 4D

AGRICULTURAL RESEARCH SERVICE, MORGANTOWN, W. VA.
Nitrogen Conservation Under Corn Planted in Quackgrass Sod,
W76-08541 9-16 3F

AGRICULTURAL RESEARCH SERVICE, MORGANTOWN, W. VA. PLANT SCIENCE DIV.
Effects of Grazing on Infiltration Rates in Waste Water Spray Fields,
W76-03124 9-07 5D

AGRICULTURAL RESEARCH SERVICE, MORRIS, MINN.
The Effect of Soil Water Supply on Corn Fertilizer Response,
W76-01075 9-03 3F

Watershed Soil Detachment and Transportation Factors,
W76-08551 9-16 2J

Sprinkler Irrigation Percolation Losses,
W76-13005 9-24 3F

AGRICULTURAL RESEARCH SERVICE, OXFORD, MISS.
Fallout CS-137: A Tool in Conservation Research,
W76-05690 9-12 2J

AGRICULTURAL RESEARCH SERVICE, OXFORD, MISS. SEDIMENTATION LAB.
Deposition Rates in Valleys Determined Using Fallout Cesium-137,
W76-00547 9-02 2J

Soil Erosion on Selected High Clay Subsiols,
W76-01308 9-03 2J

Effect of Flow Rate and Canopy on Rill Erosion,
W76-03861 9-08 2J

Erosion Control With No-Till Cropping Practices,
W76-04680 9-10 4D

Overview of the Urban Erosion and Sedimentation Processes,
W76-09731 9-18 4C

Redistribution of Cesium-137 in Southeastern Watersheds,
W76-10295 9-19 5B

Steady Laminar Flow in a Stationary Tank with a Spinning Bottom,
W76-11062 9-20 8B

Fallout 137Cs in the Soils and Sediments of Three Small Watersheds,
W76-11453 9-21 5B

Dissolved Nutrient Losses in Storm Runoff from Five Southern Pine Watersheds,
W76-12436 9-23 5B

Turbulent Characteristics of Drag-Reducing Flows,
W76-12826 9-24 8B

Efficiency of Nitrogen, Carbon, and Phosphorus Retention by Small Agricultural Reservoirs,
W76-12983 9-24 4D

AGRICULTURAL RESEARCH SERVICE, OXFORD, MISS. SEDIMENTATION RESEARCH LAB.
Dissolved Nutrient Losses in Storm Runoff from Five Southern Pine Watersheds,
W76-12172 9-23 5B

AGRICULTURAL RESEARCH SERVICE, PENDLETON, OREG.
Soybean and Corn Rooting in Southwestern Minnesota: II. Root Distributions and Related Water Inflow,
W76-01528 9-04 2D

Soybean and Corn Rooting in Southwestern Minnesota: I. Water-Uptake Sink,
W76-02403 9-05 3F

AGRICULTURAL RESEARCH SERVICE, PENDLETON, OREG. COLUMBIA PLATEAU CONSERVATION RESEARCH CENTER.
Crust Strength and Cracking: Part II. Cracking,
W76-00523 9-02 2G

AGRICULTURAL RESEARCH SERVICE, PEORIA, ILL. AGRICULTURAL AND NATURAL RESOURCES DIV.
Animal Waste Management--Comments on the National Situation,
W76-11033 9-20 5D

AGRICULTURAL RESEARCH SERVICE, PHOENIX, ARIZ.
Rates of Herbicides in Irrigated Cotton,
W76-01698 9-04 3F

Effects of Irrigation Regimes, Planting Dates, Nitrogen Levels, and Row Spacing on Safflower Cultivars,
W76-11515 9-21 3F

AGRICULTURAL RESEARCH SERVICE, PHOENIX, ARIZ. WATER CONSERVATION LAB.
Air Pressure Over Surfaces Exposed to Wind--II. Reservoirs,
W76-00287 9-01 2H

The Utility of Surface Temperature Measurements for the Remote Sensing of Surface Soil Water Status,
W76-00305 9-01 2G

Estimating Evaporation: A Technique Adaptable to Remote Sensing,
W76-00701 9-02 2D

On the Concept of Lake Stability,
W76-00990 9-02 2H

The Utility of Surface Temperature Measurements for the Remote Sensing of Surface Soil Water Status,
W76-01121 9-03 2G

Fate of Nitrogen in Sewage Effluent Applied to Soil,
W76-01696 9-04 5B

Detection of Soil Moisture by Remote Surveillance,
W76-01706 9-04 2G

Assessing Soil-Water Status Via Albedo Measurement,
W76-02224 9-05 2D

Laboratory Evaluation of Water-Repellent Soils for Water Harvesting,
W76-02225 9-05 3B

The Effect of Increasing the Organic Carbon Content of Sewate on Nitrogen, Carbon, and Bacteria Removal and Infiltration in Soil Columns,
W76-02741 9-06 5D

Freeze-Thaw Effects on Soils Treated for Water Repellency,
W76-02743 9-06 2C

Assessing Soil Moisture Remotely,
W76-02753 9-06 2G

Assessing Bare Soil Evaporation Via Surface Temperature Measurements,
W76-02754 9-06 2D

Sampling Soil-Water Distribution in the Surface Centimeter of a Field Soil,
W76-02924 9-06 2G

Water Content and Bulk Density Changes in a Soil Pedon Measured with Dual Energy Gamma-Ray Transmission,
W76-06238 9-13 5G

Water Harvesting: State of the Art,
W76-06584 9-13 3B

On the Universality of the Poole and Atkins Secchi Disk-Light Extinction Equation,
W76-06737 9-13 5A

Determining Emittances for Use in Infrared Thermometry: A Simple Technique for Expanding the Utility of Existing Methods,
W76-06923 9-14 2G

Calculation of Evaporation Rates During the Transition from Energy-Limiting to Soil-Limiting Phases Using Albedo Data,
W76-06935 9-14 2D

Infiltration into Increasingly Permeable Soils,
W76-08516 9-16 2G

Use of the Earth's Crust for Treatment or Storage of Sewage Effluent and Other Waste Fluids,
W76-10216 9-19 5D

AGRICULTURAL RESEARCH SERVICE, PHOENIX, ARIZ. WATER CONSERVATION LAB.

Wastewater Renovation and Reuse: Virus Removal by Soil Filtration,
W76-10219 9-19 5D

Infiltration-Percolation Systems,
W76-11236 9-21 5D

A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers with Completely or Partially Penetrating Wells,
W76-12432 9-23 2F

Stimulation of Denitrification in Soil Columns by Adding Organic Carbon to Wastewater,
W76-12920 9-24 5D

Portable, Adjustable Flow-Measuring Flume for Small Canals,
W76-13007 9-24 4A

AGRICULTURAL RESEARCH SERVICE, PROSSER, WASH. IRRIGATED AGRICULTURE RESEARCH AND EXTENSION CENTER.

Modification of Soil Crusts for Plant Growth,
W76-00519 9-02 2G

TCA In Irrigation Water After Bank Treatments for Weed Control,
W76-00706 9-02 5B

AGRICULTURAL RESEARCH SERVICE, PROSSER, WASH. WESTERN REGION.

Effect of Daily Irrigation on Water Content and Suction Profiles in Soils of Three Textures,
W76-00697 9-02 2G

AGRICULTURAL RESEARCH SERVICE, RIVERSIDE, CALIF.

Transformations of Fluxes and Forces Describing the Simultaneous Transport of Water and Heat in Unsaturated Porous Media,
W76-05159 9-11 2F

AGRICULTURAL RESEARCH SERVICE, RIVERSIDE CALIF. SALINITY LAB.

Effects of Frequency of Sprinkling with Saline Waters Compared with Daily Drip Irrigation,
W76-00708 9-02 3C

Interactive Effects of Salinity and Fertility on Yields of Grains and Vegetables,
W76-00741 9-02 3C

Minimizing the Salt Burdens of Irrigation Drainage Waters,
W76-00828 9-02 3C

Field Test of Soil Water Flux Meters,
W76-00838 9-02 2G

Distribution of Salts in the Root Zone,
W76-04692 9-10 2I

Salinity-Ozone Interactive Effects on Alfalfa Yield and Water Relations,
W76-06269 9-13 3C

Calculated Drainage Water Compositions and Salt Burdens Resulting from Irrigation with River Waters in the Western United States,
W76-08671 9-16 5B

AGRICULTURAL RESEARCH SERVICE, SIDNEY, MONT.

Assessing Soil Salinity and Identifying Potential Saline-Seep Areas with Field Soil Resistance Measurements,
W76-00835 9-02 3C

Estimating Water Salinity with Geophysical Earth Resistivity Equipment,
W76-08332 9-16 2K

Dryland Cropping Sequences Within a Tall Wheatgrass Barrier System,
W76-11521 9-21 3F

AGRICULTURAL RESEARCH SERVICE, SIDNEY, MONT. NORTHERN PLAINS SOIL AND WATER RESEARCH CENTER.

Range Fertilization in the Northern Great Plains,
W76-13131 9-24 4A

AGRICULTURAL RESEARCH SERVICE, ST. PAUL, MINN. SOIL AND WATER CONSERVATION RESEARCH DIV.

Consequences of Waste Disposal on Land,
W76-00427 9-01 5E

AGRICULTURAL RESEARCH SERVICE, STILLWATER, OKLA.

A Laboratory Evaluation of Trash Racks for Drop Inlets,
W76-12189 9-23 8B

AGRICULTURAL RESEARCH SERVICE, STILLWATER, OKLA. WATER CONSERVATION STRUCTURES LAB.

Dependable Yield of Reservoirs with Intermittent Inflows,
W76-05908 9-12 4A

Discharge Equations for HS, H, and HL Flumes,
W76-05918 9-12 8B

Stepped Baffled Trash Rack for Drop Inlets,
W76-09250 9-17 8B

AGRICULTURAL RESEARCH SERVICE, TEMPLE, TEX.

Sediment Routing for Agricultural Watersheds,
W76-01471 9-03 4D

Water Yield Model Using SCS Curve Numbers,
W76-12522 9-23 2A

AGRICULTURAL RESEARCH SERVICE, TEMPLE, TEX. BLACKLAND CONSERVATION RESEARCH CENTER.

Nitrate and Chloride Leaching in a Swelling Clay Soil,
W76-00724 9-02 5B

AGRICULTURAL RESEARCH SERVICE, TIFTON, GA.

Computing Phreatic Groundwater Storage,
W76-06409 9-13 2F

AGRICULTURAL RESEARCH SERVICE, TUCSON, ARIZ.

Influence of Simplifications in Watershed Geometry in Simulation of Surface Runoff,
W76-11517 9-21 2A

AGRICULTURAL RESEARCH SERVICE, TUCSON, ARIZ. SOUTHWEST WATERSHED RESEARCH CENTER.

Design and Use of Closed-Top Infiltrometers,
W76-01854 9-04 2G

Applicability of the Universal Soil Loss Equation to Semiarid Rangeland Conditions in the Southwest,
W76-02222 9-05 2J

Increasing Forage Production on a Semiarid Rangeland Watershed,
W76-02223 9-05 4A

Time-Related Changes in Water Quality of Stock Tanks of Southeastern Arizona,
W76-02233 9-05 5B

Infiltration Control Through Soil Surfac Management,
W76-02673 9-06 2

Thunderstorm Precipitation Effects on th Rainfall-Erosion Index Of The Universal So Loss Equation,
W76-02740 9-06 2

Sediment Yield as Related to a Stochast Model of Ephermeral Runoff,
W76-11512 9-21 2

Approximations for Vertical Infiltration Ra Patterns,
W76-12977 9-24 2

An Overview of the Precipitation Processin System at the Southwest Watershed Researc Center,
W76-13132 9-24 7

AGRICULTURAL RESEARCH SERVICE, TUCSON, ARIZ. STATISTICAL REPORTING SERVICE.

1975 Arizona Agricultural Statistics.
W76-10187 9-19 3

AGRICULTURAL RESEARCH SERVICE, UNIVERSITY PARK, PA. NORTHEAST WATERSHED RESEARCH CENTER.

Estimating Evapotranspiration Under Nor homogeneous Field Conditions,
W76-01707 9-04 2

AGRICULTURAL RESEARCH SERVICE, UNIVERSITY PARK, PA. REGIONAL PASTUR RESEARCH LAB.

Stagonospora Folicola, A Pathogen of Ree Canarygrass Spray-Irrigated with Municip Sewage Effluent,
W76-06318 9-13 5

AGRICULTURAL RESEARCH SERVICE, WASHINGTON, D. C. ENTOMOLOGY RESEARCH DIV.

Biodegrading Poultry Excreta with House Fl Larvae: The Concept and Equipment,
W76-11053 9-20 5

AGRICULTURAL RESEARCH SERVICE, WATER CONSERVATION LAB. PHOENIX, ARIZ.

Surface Albedo and Desertification,
W76-01705 9-04 2

AGRICULTURAL RESEARCH SERVICE, WATKINSONVILLE, GA.

A Model for Runoff of Pesticides from Sma Upland Watersheds,
W76-08356 9-16 5

AGRICULTURAL RESEARCH SERVICE, WATKINSVILLE, GA.

Organic Acid Changes in the Epidermis o Vicia Faba and Their Implication in Stomata Movement,
W76-01107 9-03 2

AGRICULTURAL RESEARCH SERVICE, WESLACO, TEX.

Predicting Nitrogen Fertilizer Requirement After Land Leveling,
W76-00155 9-01 3

Seedbed Soil Salinity and Emergence of Pep pers and Carrots Under Sprinkler and Furro Irrigation,
W76-06305 9-13 3

Flooding Effects on Light Reflectance, Transmittance, and Absorptance of Cotton (Gossypium Hirsutum) Leaves,
W76-06794 9-13 2I

Field Drainage with Manifold Well Points,
W76-09586 9-18 5G

RICULTURAL RESEARCH STATION, ADRAS (INDIA).
Correlation Between Sowing Time and Weather Factors on the Intensity of Groundnut Diseases,
W76-06800 9-13 3F

RICULTURAL STABILIZATION AND ONSERVATION SERVICE, DES MOINES, WA.
EPA's Role in the Animal Waste Problem: Panel Discussion,
W76-11045 9-20 5G

RICULTURAL STABILIZATION AND ONSERVATION SERVICE, WASHINGTON, C.
Pollution Abatement on Farmsteads,
W76-00474 9-01 5G

Preparation of Environmental Statements - Guidelines.
W76-04449 9-09 6G

RICULTURAL UNIV., WAGENINGEN, ETHERLANDS).
Technical Aspects of Water Conveyance and Distribution Systems,
W76-01886 9-04 3F

RICULTURAL UNIV., WAGENINGEN ETHERLANDS). DEPT. OF HYDRAULICS ND CATCHMENT HYDROLOGY.
Application of Finite Element Method to Open Channel Flow,
W76-10939 9-20 8B

RICULTURAL UNIV., WAGENINGEN ETHERLANDS). DEPT. OF ICROBIOLOGY.
The Relationship Between Dissimilatory Nitrate Reduction and Oxygen Uptake by Cells of an Alcaligenes Strain in Flocs and in Suspension and by Activated Sludge Flocs,
W76-09686 9-18 5D

RICULTURAL UNIV., WAGENINGEN ETHERLANDS). DEPT. OF SOILS AND ERTILIZERS.
Land Disposal of Potato Starch Processing Waste Water in the Netherlands,
W76-04748 9-10 5E

Evidence for New Aluminum Phosphate Phase from Reaction Rate of Phosphate with Aluminum Hydroxide,
W76-06295 9-13 5E

RICULTURAL UNIV., WAGENINGEN ETHERLANDS). DEPT. OF THEORETICAL RODUCTION ECOLOGY.
Simulation of Nitrogen Distribution and Its Effect on Productivity in Even-Aged Loblolly Pine Plantations,
W76-10271 9-19 5B

RICULTURAL UNIV., WAGENINGEN ETHERLANDS). DEPT. OF TROPICAL SOIL CIENCES.
Puddling Against Dry Plowing for Lowland Rice Culture in Surinam: Effect on Soil and Plant, and Interactions with Irrigation and Nitrogen Dressing,
W76-07420 9-14 3F

AGRICULTURAL UNIV., WAGENINGEN (NETHERLANDS). INSTITUUT VOOR BIOLOGISCH EN SCHEIKUNDIG ONDERZOEK VAN LANDBOUWGEWASSEN.
Water Economy of a Fictive Crop,
W76-07402 9-14 2D

AGRICULTURAL UNIV., WAGENINGEN (NETHERLANDS). LAB. FOR PHYSICAL AND COLLOIDAL CHEMISTRY.
Polymer Adsorption and Its Effect on the Stability of Hydrophobic Colloids. II. The Flocculation Process as Studied with the Silver Iodide-Polyvinyl Alcohol System,
W76-04295 9-09 5F

AGRICULTURAL UNIV., WAGENINGEN (NETHERLANDS). LAB. OF AGRICULTURAL CHEMISTRY.
Conditions for Using a Tensionplate as a Lysimeter, (In German),
W76-09082 9-17 2G

AGRICULTURAL UNIV., WAGENINGEN (NETHERLANDS). STICHTING TECHNISCHE EN FYSISCHE DIENST VOOR DE LANDBOUW.
An Electronic Leaf Wetness Recorder,
W76-00569 9-02 2I

AGRICULTUREAL RESEARCH SERVICE, FRESNO, CALIF. WATER MANAGEMENT RESEARCH.
Powdered Metal Plates for Constructing Unsaturated Flow Cells,
W76-00840 9-02 2G

AGROFIZICHESKII NAUCHNO-ISSLEDOVATELSKII INSTITUT, LENINGRAD (USSR).
Nature of Water-Retaining Forces in Moderately Wet Soils of Medium and Fine Texture, (In Russian),
W76-02900 9-06 2G

AGROTECHNIKA, NARODNY PODNIK, ZVOLEN (CZECHOSLOVAKIA). (ASSIGNEE).
Apparatus for Biological and Chemical Purification of Water by Agglomeration,
W76-12401 9-23 5F

AIN SHAMS UNIV., CAIRO (EGYPT).
Skew Inputs and the Hurst Effect,
W76-00317 9-01 4A

AIN SHAMS UNIV., CAIRO (EGYPT). DEPT. OF SOILS.
A Suitability Index of Drainage Waters for Irrigation Purposes,
W76-02168 9-05 3C

AIR AND WATER RESEARCH, INC., GAINESVILLE, FLA.
Entrainment Studies at Turkey Point on Biscayne Bay: Have Thermal Effects Affected the Plankton of Biscayne Bay,
W76-08645 9-16 5C

AIR FORCE ARMAMENT LAB., EGLIN AFB, FLA.
Effects of Propylene Oxide on Selected Species of Fishes,
W76-00322 9-01 5C

AIR FORCE CAMBRIDGE RESEARCH LABS., HANSCOM AFB, MASS.
Comparison Study of Models used to Prescribe Hydrometeor Water Content Values, Part I: Preliminary Results,
W76-13172 9-24 2B

The Continuous Aluminum-Foil Hydrometeor Sampler; Design, Operation, Data Analysis Precedures, and Operating Instructions,
W76-13173 9-24 2B

AIR FORCE CIVIL ENGINEERING CENTER, KIRTLAND AFB, N. MEX.
The Evaporation and Degradation of N-Nitroso Dimethyl Amine in Aqueous Solutions,
W76-12852 9-24 5B

AIR FORCE WEAPONS LAB., KIRTLAND AFB, N. MEX. ENVIRONICS LAB.
A New Concept in Sludge Filtration Theory for Industrial Application,
W76-05114 9-11 5D

AIR LIGUIDE SOCIETE ANONYME POUR 1'ETUDE ET 1'EXPLOITATION DES PROCEDES, PARIS (FRANCE). (ASSIGNEE).
Process for Conditioning Effluent Contaminated by Aldehyde Compounds,
W76-05545 9-12 5D

AIR LIQUIDE SOCIETE ANONYME POUR ET L'EXPLOITATION DES PROCEDES, PARIS (FRANCE). (ASSIGNEE).
Apparatus for Generating an Oxidizing Reagent for the Treatment of Polluted Water,
W76-07439 9-14 5D

AIR LIQUIDES SOCIFTE ANONYME POUR ET L'EXPLOITATION DES PROCEDES, PARIS (FRANCE). (ASSIGNEE).
Purification of Effluent,
W76-08206 9-16 5D

AIR PREHEATER CO., INC., WELLSVILLE, N. Y. (ASSIGNEE).
Metallic Recovery System,
W76-08493 9-16 5D

AIR PRODUCTS AND CHEMICALS, INC., ALLENTOWN, PA.
Oxygen Treatment vs. High-BOD Sulfite Pulping Waste Water,
W76-02463 9-05 5D

AIR PRODUCTS AND CHEMICALS, INC., ALLENTOWN, PA. (ASSIGNEE).
Wastewater Treatment System with Controlled Mixing,
W76-09433 9-18 5D

Process for Treating Waste Water,
W76-11217 9-21 5D

AIR WEATHER SERVICE, SCOTT AFB, ILL.
The AWS Handbook of Ground-Based Cold Fog Dissipation Using Vented Liquid Propane, Volume I - Theroy and Practice.
W76-12471 9-23 3B

AIRCO, INC., MONTVALE, N. J. (ASSIGNEE).
Methods and Apparatus for Treating Wastewater,
W76-05987 9-12 5D

AIRESEARCH MFG. CO., LOS ANGELES, CALIF.
Membrane Evaporator/Sublimator Investigation,
W76-02538 9-06 3A

Membrane Humidity Control Investigation,
W76-02539 9-06 3A

Membrane Water Deaerator Investigation,
W76-02541 9-06 5F

AIX-MARSEILLE-2 UNIV. (FRANCE). LABORATOIRE DE BIOLOGIE VEGETALE.
Sequences of Effects of a City Sewer: As a Function of the Removal of the Source of Pollution, on the Photophile Populations Growing in Exposed Places (Algal Fraction); First Results, (In French),
W76-06770 9-13 5C

Particulars of Some Specimens of Algal Flora of the Ponds of Berre and Vaine (Bouches-Du-Rhone), (In French),
W76-07950 9-15 5C

Minimal Area and Algal Marine Settlements, (In French),
W76-07951 9-15 2L

AIX-MARSEILLE-UNIV. (FRANCE). LABORATOIRE D'HYDROBIOLOGIE.
Planktonic Ecosystems: The Effects of Dystrophic Conditions on Structure and Function in the Gulf of Fos, (In French),
W76-08312 9-16 5C

AKADEMIA ROLNICZA, LUBLIN (POLAND). INSTYTUT BIOLOGII.
Ictalurus Nebulosus (Le Sueur, 1819) in a Lake Biocenosis, (In Polish),
W76-06765 9-13 2H

AKADEMIA ROLNICZO-TECHNICZNA, OLSZTYN-KORTOWO (POLAND). INST. OF PLANT BIOLOGY.
The Vegetation of the 'Lukniany Lake' Nature Reserve in the Mazurian Lake District,(In Polish),
W76-09990 9-18 5C

AKADEMIYA NAUK ARMYANSKOI SSR, EREVAN. INSTITUT ZOOLOGII.
Comparative Evaluation of Food Plants of the Ararat Cochineal Scale (Porphyrophora Hamelii) (In Russian),
W76-09406 9-18 2I

AKADEMIYA NAUK ARMYANSKOI SSR, SREVAN. HYDROBIOLOGY STATION.
Population of Gammarus Lacustris Sars (Crustacea, Amphipoda) in Lake Sevan During its Decrease, (In Russian),
W76-07270 9-14 2H

AKADEMIYA NAUK ESTONSKOI SSR, TARTU. INST. OF ZOOLOGY AND BOTANY.
The Chemical Composition of the Upper Layer of Sapropel from the Viitna Lakes, (In Russian),
W76-01753 9-04 2H

AKADEMIYA NAUK ESTONSKOI SSR, TARTU. INSTITUT FIZIKI I ASTRONOMII.
Optimal Distribution of Assimilates During Limited Water Supply: A Mathematical Mode, (In Russian),
W76-06786 9-13 2I

Effect of Air Humidity on Stomatal and Mesophyll Conductivity of Bean Leaves at Two Soil Moisture Levels, (In Russian)
W76-09097 9-17 2I

AKADEMIYA NAUK KAZAKHSKOI SSR, ALMA-ATA. INST. OF MICROBIOLOGY AND VIROLOGY.
Effect of Aeration on Microbiological Processes in Flooded Soil, (In Russian),
W76-07363 9-14 2G

Destruction of Organic Matter in Grounds of Kapchagai Reservoir, (In Russian),
W76-12320 9-23 5C

AKADEMIYA NAUK KAZAKHSKOI SSR, ALMA-ATA. INSTITUT ZOOLOGII.
Ecology of the Lake Frog in South-Eastern Kazakhstan. (In Russian).
W76-00637 9-02 2I

AKADEMIYA NAUK LATVIISKOI SSE, RIGA. INST. OF BIOLOGY.
Study of Sr90/Sr Ratio in a Latvian Seaside Lake,
W76-06869 9-14 5C

AKADEMIYA NAUK LATVIISKOI SSR. INST. OF WOOD CHEMISTRY.
Lignosulfonates and Natural Water-Soluble Lignin in the Lielupe River (Lignosul'fonaty i prirodnyi vodorastvorimyi lignin v vode r. Lielupe),
W76-10835 9-20 5B

AKADEMIYA NAUK LATVIISKOI SSR, RIGA. INST. OF BIOLOGY.
The Migration of Fly Larvae (Simuliidae) in Water With High Levels of Turbidity(in Russian).
W76-01615 9-04 2I

Study of the Strontium 90/Strontium Isotope Balance in a Latvian Lake, (In Russian),
W76-06733 9-13 5A

Radioecology of Water Organisms, Vol. 2. Distribution and Migration of Radionuclides in Freshwater and Seawater Biocenoses.
W76-06861 9-14 5B

Sr90 in Water, Bottom, and Water Organisms in Latvian Lakes of Various Types,
W76-06867 9-14 5B

The Role of Aquatic Plants in the Migration of Sr90 in Some Water Reservoirs of the Lithuanian SSR,
W76-06868 9-14 5B

Sr90/Sr Ratio in Plankton of Latvian Lakes of Various Types,
W76-06870 9-14 5C

Sr90 Distribution in Water and Bottom Sediments of Latvian Lakes,
W76-06871 9-14 5B

AKADEMIYA NAUK LATVIISKOI SSR, RIGA. INST. OF WOOD CHEMISTRY.
Self-Purification of Some Rivers of the Latvian SSR from Substances Determining the Biochemical Oxygen Demand Value, (In Russian),
W76-07069 9-14 5G

Some Causes of Anomalies in Oxygen Mass Transfer in Polluted Water, (In Russian),
W76-12265 9-23 5D

AKADEMIYA NAUK LITOVSKOI SSE, VILNIUS. INSTITUT ZOOLOGII I PARAZITOLOGII.
Population Structure of the Dominating Benthic Organisms of Lake Dusia: 1. Potamothrix Hammoniensis Mich. in 1969-1971, (In Russian),
W76-02994 9-06 2H

AKADEMIYA NAUK LITOVSKOI, SSR, VILNIUS. INST. OF BOTANY.
Uptake of Sr90 by Organisms of Gammarus Sp and Chironomus F. L. Plumosus L.,
W76-06881 9-14 5C

Development Aspects of Bacterial Flora Under Different Ecological Conditions, (In Russian),
W76-07284 9-14 5C

Activity of Oil Oxidizing Bacteria Isolated from the Water of Lagoon of Kurski Zaliv and the Baltic Sea Coast, (In Russian),
W76-07294 9-14 5C

AKADEMIYA NAUK LITOVSKOI SSR, VILNIUS. INSTITUT ZOOLOGII I PARAZITOLOGII.
Microzooplankton of Lakes Obelija, Slavantas, Galstas and Dusia, (In Russian),
W76-07283 9-14 5C

Hydrobiological Condition in the Reservoir-Cooler of the Lithuanian State Regional Electric Power Station, (In Russian),
W76-07944 9-15 5C

Infection of Broad-Clawed Crayfish with Branchiobdella and Control Measures Against them, (In Russian),
W76-09086 9-17 2H

Effect of Sulfite Effluents of Cellulose-Paper Mill on Vitality of Daphnia Magna Straus, (In Russian),
W76-11544 9-21 5C

AKADEMIYA NAUK LITOVSKOI SSR, VILNIUS. INSTITUT ZOOLOGII I PARIZITOLOGII.
Ecological Variability of Bream in Lithuanian Waters: 2. Age and Growth Rate, (In Russian),
W76-10519 9-20 5C

AKADEMIYA NAUK SSS, LENINGRAD. ZOOLOGICHESKII INSTITUT.
Features of Freshwater Ecosystems (From the Results of Soviet Participation in the International Biological Program), (In Russian),
W76-11556 9-21 5C

AKADEMIYA NAUK SSSR, BOROK. INST. OF BIOLOGY INLAND WATERS.
The Role of Microflora in the Productivity of a Salmon Breeding Lake, (In Russian),
W76-09818 9-18 5C

AKADEMIYA NAUK SSSR, CHITA. TRANSBAIK. COMPLEX EXPEDITON.
Bacterioplankton Reproduction in Phials with Filtered Water, (In Russian),
W76-12319 9-23 5C

AKADEMIYA NAUK SSSR, LENINGRAD. BOTANICHESKII INSTITUT.
New Concepts on the Water Regime of Plants of the Kara Kum Desert, (In Russian),
W76-02317 9-05 2I

Production of Macrophytes of Some Lakes in the Pskov Region, (In Russian),
W76-03245 9-07 5C

Effect of the Water Regime on the Heat-Resistance of Leaf Cells of Heat-Hardened Tradescantia Fluminensis Vell. Plants, (In Russian),
W76-09102 9-17 2I

AKADEMIYA NAUK SSSR, LENINGRAD. INSTITUT EVOLYUTSIONNOI FIZIOLOGII I BIOKHIMII
Ratio Between Cs137 and K Accumulation Coefficients in Freshwater Organisms,
W76-06873 9-14 5C

Environmental Na22 in Freshwater Ecosystem Studies,
W76-06874 9-14 5C

Rb, and Cs Exchange Dynamics in Fish and
mprey Migrating from Sea to Fresh Water
efore Spawning),
76-06877 9-14 5C

DEMIYA NAUK SSSR, LENINGRAD.
ITUT OZEROVEDENIYA.
incipal Tendencies in the Biology of the
odern Baltic Sea, (In Russian),
76-02770 9-06 5C

DEMIYA NAUK SSSR, LENINGRAD.
ITUTE OF LAKES KEEPING.
n-Manganese Microorganisms Studied by
ergrowing Technique, (In Russian),
76-09813 9-18 5A

DEMIYA NAUK SSSR, LENINGRAD.
LOGICHESKII INSTITUT.
otosynthetic Activity of Individual Algal
ecies of the Plankton of Lake Krivoye, (In
ssian),
76-02206 9-05 5C

btropical Freshwater Shrimp Macrobrachium
pponense (De Haan) (Palaemonidae) In
nds Near Moscow, (In Russian),
76-02590 9-06 2I

me General Relations Between the Biomass
Planktonic Filter Feeders and their Food, (In
ssian),
76-05326 9-11 5C

e Effect of Trematode Larval Infestation of
ydrobia Ulvae on Its Resistance to Drying
d Water-Freshening, (In Russian),
76-05421 9-11 5C

elative Importance of Single Algae Species in
anktonic Primary Production, (In Russian),
76-07263 9-14 5C

ological-Productive Investigations of
oplankton in the Lakes and Water Reser-
irs of the USSR (General Results of the In-
rnational Biological Program), (In Russian),
76-11581 9-21 2H

DEMIYA NAUK SSSR, MOSCOW.
e Economics of Developing the Resources of
e World's Oceans,
76-10587 9-20 6B

DEMIYA NAUK SSSR, MOSCOW. INST.
BIOCHEMISTRY AND PHYSIOLOGY OF
ROORGANISMS.
uantitative Characteristics of Distribution of
dellovibrio Bacteriovorus in River Water, (In
ssian),
76-11551 9-21 5A

DEMIYA NAUK SSSR, MOSCOW. INST.
EVOLUTIONARY PHYSIOLOGY.
ifferences in the Specific Activity of Cs137 in
e Components of a Freshwater Ecosystem,
76-06882 9-14 5C

DEMIYA NAUK SSSR, MOSCOW. INST.
PLANT PHYSIOLOGY.
he Water Regime, Enzymatic Activity and
rost-Resistance of Winter Wheat, (In Rus-
an),
76-00003 9-01 3F

ater Regime and Content of Phosphorus
ompounds of Acid-Soluble Fraction in Cotton
eaves at Different Water-Supply Levels, (In
ussian),
76-07276 9-14 2I

AKADEMIYA NAUK SSSR, MOSCOW. INST.
OF STATE AND LAW.
Oceans, Technology and Law.
W76-12025 9-22 6E

The Delimitation of the North Sea Continental
Shelf,
W76-12031 9-22 6E

Scientific-Technological Progress and the
Search for Legal Regulation Over Possible
Uses of the Ocean Floor,
W76-12032 9-22 6E

Legal Regulation of Seabed Uses Beyond the
Limits of the Continental Shelf,
W76-12033 9-22 6E

International-Legal Protection of the Seas from
Pollution,
W76-12034 9-22 6E

International-Legal Protection of the Living
Resources of the Sea,
W76-12036 9-22 6E

AKADEMIYA NAUK SSSR, MOSCOW.
INSTITUT AGROKHIMII I
POCHVOVEDENIYA.
Effect of Ammonium Lignosulfonate on Soil
Microorganisms (O vliyanii lignosul'fonata am-
moniya na pochvennye mikroorganizmy),
W76-02464 9-05 5C

AKADEMIYA NAUK SSSR, MOSCOW.
INSTITUT BIOKHIMII.
Light-Induced Transformations of the Pigment
Complex in Anacystis Nidulans,
W76-05479 9-11 5C

AKADEMIYA NAUK SSSR, MOSCOW.
INSTITUT BIOLOGII VNUTRENNYKH VOD.
The Hypothalamo-Hypophyseal Neurosecreto-
ry System of the Guppy Lebistes Reticulatus
Under Chronic Phenol Intoxication, (In Rus-
sian),
W76-11549 9-21 5C

Vertical Distribution, Sestonic Seasonal
Dynamice and the Role of Detritus in the Lake
Dal'neye Ecosystem, (In Russian),
W76-12301 9-23 5C

Studies of Mineral Phosphate Consumption by
a Tropical Water Planktonic Community, (In
Russian),
W76-12308 9-23 5C

Characteristics of the Primary Production in
the Salmon Breeding Lake, (In Russian),
W76-13193 9-24 5C

Long-Term Changes in the Benthos Biomass of
the Kuibyshev Water Storage Basin, (In Rus-
sian),
W76-13198 9-24 5C

AKADEMIYA NAUK SSSR, MOSCOW.
INSTITUT FIZICHESKOI KHIMII.
Accumulation of the Iron Group Elements by
Phytoplankton, (In Russian),
W76-02772 9-06 5B

AKADEMIYA NAUK SSSR, MOSCOW.
INSTITUT FIZIKI ZEMLI.
Vibrations of Earth Dams.
W76-12823 9-24 8D

AKADEMIYA NAUK SSSR, MOSCOW.
INSTITUT GEOGRAFII.
Remote Determination of Soil Moisture by
Aerospace Methods,
W76-04967 9-10 2G

Spring Runoff from Slopes, Small Drainage
Basins, and River Basins,
W76-04968 9-10 2E

Maps of the Elements of the Hydrologic
Budget of Asia,
W76-05934 9-12 2A

Water Pollution and Anthropogenic Eutrophi-
cation of Inland Water Bodies, (In Russian),
W76-06775 9-13 5C

AKADEMIYA NAUK SSSR, MOSCOW.
INSTITUT GEOKHIMII I ANALITICHESKOI
KHIMII.
Extraction of Metals by Neutral Sulfur-Con-
taining Extractants, Part I, O-Isopropyl-N-
Ethylthiocarbamate,
W76-03641 9-08 5A

Natural Radioelements in Contemporary Bot-
tom Sediments of Estonian Lakes,
W76-06875 9-14 5B

AKADEMIYA NAUK SSSR, MOSCOW.
INSTITUT MIKROBIOLOGII.
'Toxic' or 'Poisonous' Water, (In Russian),
W76-09932 9-18 5C

AKADEMIYA NAUK SSSR, MOSCOW.
INSTITUT OKEANOLOGII.
Determination of Total Phosphorus in
Suspended Matter of Natural Waters, (In Rus-
sian),
W76-02572 9-06 5A

Basic Features of the Chemical Composition of
Organic Matter in Sediments of Marine and
Oceanic Basins, (In Russian),
W76-07407 9-14 5A

Organic Carbon, Phosphorus and Nitrogen in
the Waters of the Sea of Japan, (In Russian),
W76-08313 9-16 5A

Fine-Dispersed Fraction of Suspended Organic
Matter in the East Pacific Waters, (In Russian),
W76-08314 9-16 5C

Phytoplankton Distribution in the Vicinity of
the Peru Current Near 8 Degrees S. Latitude,
(In Russian),
W76-09283 9-17 5B

On Phillips' Theory of Equilibrium Range in
the Spectra of Wind-Generated Gravity Waves,
W76-12336 9-23 2H

AKADEMIYA NAUK SSSR, MOSCOW.
INSTITUT VODNYKH PROBLEM.
Estimation and Mapping of the Rates of Fresh
Ground-Water Renewal (Taking the Baltic Ar-
tesian Basin as an Example),
W76-04959 9-10 4B

Level of Closed Bodies of Water as One of the
Criteria of Global Water Exchange,
W76-06179 9-13 2A

Measurement of the Structure of River Flow,
W76-06180 9-13 2E

AKADEMIYA NAUK SSSR, MOSCOW.
INTERAGENCY GEOPHYSICAL COMMITTEE.
Analogous Modelling of Aquiferous Systems in
Coastal Zones,
W76-10455 9-19 2L

AKADEMIYA NAUK SSSR, MOSCOW.
POCHVENNYI INSTITUT.
Water Regime in Growing Points of Wheat
Shoots, (In Russian),
W76-08757 9-17 2I

AKADEMIYA NAUK SSSR, NOVOSIBIRSK. CENTRAL SIBERIAN BOTANICAL GARDEN.

AKADEMIYA NAUK SSSR, NOVOSIBIRSK. CENTRAL SIBERIAN BOTANICAL GARDEN.
Effect of Hydraulic Engineering Construction on Phytobenthos of the OB and Yenisei Rivers, (In Russian),
W76-04938 9-10 5C

AKADEMIYA NAUK SSSR, NOVOSIBIRSK. INST. OF SOIL SCIENCES AND AGROCHEMISTRY.
Dynamics of Salts SiO2, R2O3, MnO and Water-Soluble Organic Matter in Underground Water, (In Russian),
W76-13043 9-24 5B

AKADEMIYA NAUK SSSR, NOVOSIBIRSK. INSTITUT FIZIKI.
Productivity and Biochemical Composition of Chlorella at Different Levels of Illumination and Nitrogen Limitation,
W76-05640 9-12 5C

AKADEMIYA NAUK SSSR, PETROZAVODSK. KARELSKII FILIAL.
Baytex Effect on Some Representatives of the Kareliam ASSR Hydrofauna, (In Russian),
W76-02899 9-06 5C

AKADEMIYA NAUK SSSR, PUSHCHNO. INST. OF BIOCHEMISTRY AND PHYSIOLOGY OF MICROORGANISMS.
Microbiological Production of Hydrogen Sulphide in the Veisovo Lake (Slavyansk Lakes), (In Russian),
W76-07278 9-14 5C

AKADEMIYA NAUK SSSR, SVERDLOVSK. INST. OF PLANT AND ANIMAL ECOLOGY.
Radioactive Isotopes in the System Water--Freshwater Plants,
W76-06866 9-14 5B

Sorption of Sr90 by Bottom Sediments of a Freshwater Lake,
W76-06872 9-14 5B

Migration of Sr90 from Fish Organisms into Offsprings,
W76-06883 9-14 5C

Self-Regulation of the Population and Biomass of Schools of Yearling Carp, (In Russian),
W76-08832 9-17 2I

Some Characteristics of Spleen Growth in the Lake Minnow, (In Russian),
W76-10521 9-20 2I

AKADEMIYA NAUK SSSR, TOLYATTI. INSTITUT BIOLOGII VNUTRENNYKH VOD.
Use of Animal Behavior Studies in Water Toxicology, (In Russian),
W76-11731 9-22 5A

Phytoplankton, Production and Breakdown of Organic Matter in the Kuibyshev Reservoir, (In Russian),
W76-11739 9-22 5C

AKADEMIYA NAUK SSSR, VLADIVOSTOK. INSTITUT MORSKOGO BIOLOGII.
Primary Production and Biotic Balance of Plankton in the Northeastern Part of the Amur Bay, (In Russian),
W76-11576 9-21 5C

AKADEMIYA NAUK SSSR, YAROSLAVL. INSTITUT BIOLOGII VNUTRENNYKH VOD.
Sulphide Formation and Chemical Composition of Bottom Sediments of Some Italian Lakes,
W76-05466 9-11 5C

AKADEMIYA NAUK SSSS, MOSCOW. INSTITUT MIKROBIOLOGII.
Participation of Microorganisms in Sulfur Turnover in Pomiaretzkoe Lake, (In Russian),
W76-01774 9-04 5C

AKADEMIYA NAUK TADZHIKSKOI SSR, DUSHANBE. INSTITUT ZOOLOGII I PARAZITOLOGII.
Marinka Schizothorax Intermedius Mcclelland of the Kattai Water Reservoir (Tadzhikistan), (In Russian),
W76-00278 9-01 2I

Morphological Characteristics of the Crucian Carp of the Kairak-Kum Reservoir, (In Russian),
W76-00357 9-01 2I

Formation of the Fish Fauna of the Chimkurgan Reservoir in the Basin of the Kashkadar'ya River (Uzbek SSR, USSR), (In Russian),
W76-07399 9-14 2H

Study of the Macrozoobenthos of Flood Plain Lakes of the Vakhsh River, (In Russian),
W76-07414 9-14 2H

Mass Forms of Chironomid Larvae from the Kayrakkum Reservoir, (In Russian),
W76-07418 9-14 2H

Brief Microbiological Characterization of the Kayrakkum Reservoir, (In Russian),
W76-07941 9-15 5C

AKADEMIYA NAUK TURKMENSKOI SSR, ASHKHABAD. FIZIKO-TEKHNICHESKII INSTITUT.
Wind-Solar Power Installations for Water Raising and Distillation, (In Russian),
W76-11524 9-21 3A

AKADEMIYA NAUK TURKMENSKOI SSR, ASHKHABAD. INSTITUT BOTANIKI.
Biological Productivity of Herbaceous Phytocenoses of the Amu Dar'ya Flood Lands. (In Russian),
W76-00711 9-02 2I

AKADEMIYA NAUK TURKMENSKOI SSR, ASHKHABAD. INSTITUT ZOOLOGII I PARAZITOLOGII.
Some Data on Zooplankton of Reservoirs in the Mary and Chardzhou Regions of the Turkmen SSR, (In Russian),
W76-10520 9-20 2H

AKADEMIYA NAUK TURKMENSKOI SSR, ASHKHABAD. RESEARCH INST. OF AGRICULTURE.
Mechanization of Water-Raising from the Water-Accumulating Wells 'Chirle', (In Russian),
W76-03663 9-08 4B

AKADEMIYA NAUK URSR, KIEV. INST. OF COLLOIDAL CHEMISTRY AND WATER.
Interaction of Blue-Green Algae with Multiply-Charged Inorganic Cations, (In Russian),
W76-11736 9-22 5A

AKADEMIYA NAUK URSR, KIEV. INST. OF HYDROMECHANICS.
Device for Aerating Water Bodies, (In Russian),
W76-12311 9-23 5G

Survival of White Amur Larvae Under the Effect of Zinc Sulfate, (In Russian),
W76-12312 9-23 2I

AKADEMIYA NAUK URSR, KIEV. INST. OF STATE AND LAW.
Freedom of Scientific Research in the Wo Ocean,
W76-12013 9-22

AKADEMIYA NAUK URSR, KIEV. INSTITUT FIZIOLOGII RASTENII AND AGROKHIMII.
Effectiveness of Water Utilization by Pla (In Ukranian),
W76-09809 9-18

AKADEMIYA NAUK URSR, KIEV. INSTITUT FIZIOLOGII RASTENII I AGROKHIMII.
Effect of Water and Nutrient Regimes of S Soil on the Qualitative Composition of Sta in Potato Tubers, (In Russian),
W76-07990 9-15

Carbohydrate Transformation in Wheat Rye Plants Under Effect of Flooding in the tumn-Winter Period, (In Russian),
W76-08307 9-16

AKADEMIYA NAUK URSR, KIEV. INSTYTUT BOTANIKI.
Formation and Development of Land-Aqua Vegetation in Shallow Waters of the Dniep Pripyat and Teterev Flora Plains (In Ukra an),
W76-00582 9-02

Biochemical Characteristics of Spirul Platensis (GOM.) Geitl.: I. Water-Solu Group B Vitamins, (In Ukranian),
W76-09091 9-17

Study of Algoflora of Contaminated Wa Bodies, (In Ukranian),
W76-09093 9-17

Modern State of the Vegetation in the Don Small River Basins and its Antierosive Water-Protective Role, (In Ukranian)
W76-09096 9-17

Some Aspects of Foam and Scum Mycoflora the Running Waters of Polesye and Steppe the Ukrainian SSR, (In Ukranian),
W76-12323 9-23

AKADEMIYA NAUK URSR, KIEV. INSTYTUT FIZIOLOGII RASTENII I AGROKHIMII.
State of Cytoplasmic Proteins of Corn Leav in Dependence of Soil Moisture, (In Russian)
W76-07267 9-14

AKADEMIYA NAUK URSR, KIEV. INSTYTUT GEOLOGICHNYKH NAUK.
The Effect of Forest Stands on the Water Co tent of Rocks of the Loess Cover in Western Regions of the Northern Black S Area, (In Ukranian),
W76-08303 9-16

AKADEMIYA NAUK URSR, KIEV. INSTYTUT HIDROBIOLOGII.
Change of Some Physiological and Biochemi Indices of Phragmites Communis Trin. w Different Mineral Nutrition Under Experime tal Conditions, (In Russian),
W76-02942 9-06

Productivity of Higher Hydrophytes and Sto of Phytophilic Invertebrates in the Kilia De of the Danube, (In Russian),
W76-07277 9-14

Occurrence and Outflow of Zooplankton in t Kiev Reservoir, (In Russian),
W76-08090 9-15

hemiluminescent Method of Determining anganese in Natural Waters, (In Russian),
76-09077 9-17 2K

xperimental Study of the Effect of Temperare and Degree of Oxygen Saturation on the estruction rate of Soluble Proteins in Natural aters, (In Russian),
76-09078 9-17 5C

ffect of Heated Water Discharge of Thermal d Nuclear Power Plants on Invertebrates of ooling Ponds, (In Russian),
76-09811 9-18 5C

he Statistical Approach to the Study of the nall Rivers Hydrochemical Regime in estern Polesye of the Ukrainian SSR, (In ussian),
76-11536 9-21 5A

DT and its Metabolites in Some Cestodes in ishes, (In Russian),
76-11550 9-21 5C

eston of the Kiev Water Reservoir and Quantative Ratios of Its Components, (In Russian),
76-12302 9-23 5C

Vinter Hydrochemical Conditions of Small ivers in the Polesye of the Ukrainian SSR The Pripyat Basin), (In Russian),
76-12303 9-23 5C

Distribution of Trace Elements in Bottom Sediments of the Kiev Reservoir Ukrainia SSR, SSR, (In Russian),
76-12305 9-23 5B

Dynamics of Number and Biomass of Planknic Infusoria in Open Zones of Kremenchug eservoir and Their Production and Role in Oranic Matter Destruction, (In Russian),
76-13141 9-24 2H

Quantitative Dynamics of Bacteria in the Kremenchug Reservoir, (In Russian),
76-13195 9-24 5C

Production of Pontogammarus Robustoides Grimm. In the Reservoir-Cooler of the Kurakovian State Regional Electric Power Station, In Russian),
76-13200 9-24 5C

ADEMIYA NAUK URSR, KIEV. INSTYTUT DROBIOLOGII.
A Brief Characterization of Shoals and Their lant Cover in the Kremenchug Reservoir, (In ussian),
76-08697 9-16 2H

ADEMIYA NAUK URSR, KIEV (USSR). NTRAL REPUBLICAN BOTANICAL RDEN.
Distribution, Phytocenology and Productivity f Nymphaeaceae in Reservoirs of the Dnieper Cascade, (In Ukranian),
76-07314 9-14 5C

ADEMIYA NAUK USSR, KIEV. INSTYTUT DROBIOLOGII.
Effect of Water Movement on Viability of Microcystis Aeruginosa Kutz. Emend. Elenk, In Russian),
76-01919 9-04 2I

ADEMIYA NAUK UZBEKSKOI SSR, SHKENT. DEPT. OF MICROBIOLOGY.
Characteristics of the Accumulation of Free Amino Acids by Some Nonsporulating Bacteria rom Typical Irrigated Sierozem, (In Russian),
76-10188 9-19 5B

AKADEMIYA NAUK UZBEKSKOI SSR, TASHKENT. INSTITUT BOTANIKI.
Planting Shrubs and Half-Shrubs in Moisture Storing Furrows, (In Russian),
W76-07288 9-14 4A

AKADEMIYA NAVUK BSSR, MINSK. INST. OF EXPERIMENTAL BOTANY.
Soil Moisture Regime and Pigment Content in Leaves of Cereals, (In Belorussian),
W76-08304 9-16 3F

Role of Groundwaters in Redistribution of Solar Radiation by a Phytocenosis, (In Belorussian),
W76-08665 9-16 2I

AKADEMIYA NAVUK BSSR, MINSK. TSENTRALYN BOTANICHNY SAD.
Pine Associations of the Dernovich Stretch of the Pripyat River Floodplain, (In Belorussian),
W76-01918 9-04 2I

AKRON UNIV., OHIO. DEPT OF BIOLOGY.
Summer Phytoplankton Photosynthesis in a Northeastern Ohio Glacial Lake,
W76-08828 9-17 5C

AKRON UNIV., OHIO. INST. OF POLYMER SCIENCE.
Structure of Reverse Osmosis Membranes,
W76-04503 9-10 3A

AKRON UNIV., OHIO. SCHOOL OF LAW.
Problems of Groundwater Rights in Ohio,
W76-11980 9-22 4B

AKZO N.V., WUPPERTAL (WEST GERMANY).
Process for Purifying Papermaking Effluents (Verfahren zur Reinigung von bei der Papierherstellung anfallendem Abwasser),
W76-12505 9-23 5D

AKZO RESEARCH LAB., ARNHEM (NETHERLANDS).
Methods for Measurement of Biodegradability of Chemical Compounds,
W76-09599 9-18 5C

ALABAMA UNIV., HUNTSVILLE. CENTER FOR ENVIRONMENTAL STUDIES.
Determination of Points of Entry for Potential Contaminants into Limestone Aquifers Using Thermal Infrared Imagery,
W76-01840 9-04 5B

ALABAMA UNIV., UNIVERSITY. DEPT. OF CHEMICAL AND METALLURGICAL ENGINEERING.
Water Resources Planning for Rivers Draining into Mobile Bay, Part II: Non-Conservative Species Transport Models,
W76-08327 9-16 5B

ALABAMA UNIV. UNIVERSITY. DEPT. OF CHEMICAL ENGINEERING.
Hydrodynamic and Material Transport Model for Mobile Bay, Alabama,
W76-09983 9-18 5B

ALABAMA UNIV., UNIVERSITY. DEPT. OF CHEMISTRY.
Trace Analysis of Organic Volatiles in Water by Gas Chromatography-Mass Spectrometry with Glass Capillary Columns,
W76-03708 9-08 5A

ALABAMA UNIV., UNIVERSITY. DEPT. OF CIVIL AND MINERAL ENGINEERING.
New Analytical Techniques for the Study of Water Disinfection,
W76-00106 9-01 5F

ALAMO AREA COUNCIL OF GOVERNMENTS, SAN ANTONIO, TEX.
Regional Waste Water Development Plan: Analysis of Existing Facilities.
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ALAR ENGINEERING CORP., CHICAGO, ILL. (ASSIGNEE).
Waste Treatment Process,
W76-10207 9-19 5D

Process and Apparatus for Treating Fatty Waste Water,
W76-10471 9-19 5D

ALASKA DEPT. OF FISH AND GAME, JUNEAU.
Inventory and Cataloging of Sport Fish and Sport Fish Waters in Southeast Alaska,
W76-01623 9-04 7C

ALASKA DEPT. OF FISH AND GAME, PETERSBURG.
Acute Toxicities of Spruce and Hemlock Bark Extracts to some Estuarine Organisms in Southeastern Alaska,
W76-11393 9-21 5C

ALASKA STATE DEPT. OF ENVIRONMENTAL CONSERVATION, JUNEAU.
Alaska Department of Environmental Conservation Act.
W76-04365 9-09 5G

ALASKA UNIV. COLLEGE.
Application of ERTS Data to Resource Surveys of Alaska,
W76-02065 9-05 7C

ALASKA UNIV., COLLEGE. GEOPHYSICAL INST.
Structure and Properties of Ice Lenses in Frozen Ground,
W76-03140 9-07 2C

Nucleation Characteristics of Stream Water and Frazil Ice Nucleation,
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Some Remarks on the Unusual Beaufort Sea Ice Conditions in Summer 1975,
W76-12470 9-23 2C

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Relationship Between Potassium Intake and Radiocesium Retention in the Reindeer,
W76-10305 9-19 5C

ALASKA UNIV., COLLEGE. INST. OF MARINE SCIENCE.
Environmental Studies of an Arctic Estuarine System,
W76-02075 9-05 2L

Seasonal Characteristics of Water Masses in Muir Inlet, a Fjord with Tidewater Glaciers,
W76-03112 9-07 2L

Nitrogen Kinetics in Aquatic Plants in Arctic Alaska,
W76-04583 9-10 5C

Hydrocarbon Biodegradation Kinetics,
W76-05151 9-11 5B

Oceanographic Conditions During 1973 in Russel Fjord, Alaska,
W76-08525 9-16 2L

ALASKA UNIV., COLLEGE. INST. OF MARINE SCIENCE.

The Nitrogen Balance of Arctic Tundra: Pathways, Rates, and Environmental Implications,
W76-08678 9-16 5B

ALASKA UNIV., COLLEGE. INST. OF WATER RESOURCES.

Heat and Mass Transfer in Cold Region Soils,
W76-03001 9-07 2G

Winter Soil Water Dynamics,
W76-03002 9-07 2G

Evaluation of the Trophic Types of Several Alaskan Lakes by Assessment of the Benthic Fauna,
W76-05604 9-12 5C

ALBANY MUSEUM, GRAHAMSTOWN (SOUTH AFRICA).

The Trichoptera of the Sundays and Fish Rivers, Eastern Cape Province, South Africa,
W76-07417 9-14 5C

ALBERTA ENERGY RESOURCES CONSERVATION BOARD, EDMONTON.

The Toxicity of Drilling Fluids, Their Testing and Disposal,
W76-08911 9-17 5D

ALBERTA RESEARCH, EDMONTON. DIV. OF HIGHWAY AND RIVER ENGINEERING.

Oblique Impingement of Circular Turbulent Jets,
W76-10709 9-20 8B

ALBERTA UNIV., EDMONTON.

Water Problems in Alberta Oilsands Development,
W76-06953 9-14 5G

ALBERTA UNIV., EDMONTON. DEPT. OF BOTANY.

The Effect of Thermal Effluent Upon the Standing Crop of an Epiphytic Algal Community,
W76-00330 9-01 5C

Thermal Stratification and Heating Mechanisms in a Small Lake,
W76-12139 9-22 2H

ALBERTA UNIV., EDMONTON. DEPT. OF CIVIL ENGINEERING.

Meandering of Supraglacial Melt Streams,
W76-01261 9-03 2E

Modeling of Meandering and Braiding in Rivers,
W76-09974 9-18 2J

Roughness Effects on Rectangular Free Overfall,
W76-11855 9-22 8B

ALBERTA UNIV., EDMONTON. DEPT. OF ENTOMOLOGY.

Two New Quantitative Samplers for Aquatic Phytomacrofauna,
W76-04593 9-10 5C

ALBERTA UNIV., EDMONTON. DEPT. OF GEOLOGY.

Response Testing of Piezometers in Fractured Porous Media,
W76-03751 9-08 2F

ALBERTA UNIV., EDMONTON. DEPT. OF PHYSICS.

Application of Isotope Techniques to Glacier Studies,
W76-01252 9-03 2C

ALBERTSON, SHARP AND BACKUS, NORWALK, CONN.

Minimal Cost Plant Cleaning Up Harbor,
W76-05796 9-12 5D

ALEXANDRIA UNIV. (EGYPT). FACULTY OF AGRICULTURE.

Ionic Leaf Accumulation in Grapes, Guava and Olive Plants as Affected by the Salinity of Irrigation Water,
W76-06030 9-12 3C

ALFA-LAVAL A. B., TUMBA (SWEDEN).

Optimizing Centrifuge Decantation for Sludge Thickening (Optimisation Des Decanteuses Centrifuges Pour La Concentration Des Bous),
W76-10217 9-19 5D

ALFRED P. SLOAN SCHOOL OF MANAGEMENT, CAMBRIDGE, MASS.

The Interplay of Law and Technology in Deep Seabed Mining Issues,
W76-07816 9-15 6E

A Probabilistic Model of the Oil and Gas Discovery Process,
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Decontamination of Wastewaters at the Stage of Potassium Arabonate in the Production of Vitamin B2, (In Russian),
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ALLAHABAD UNIV. (INDIA). DEPT. OF CHEMISTRY.

Application of Infrared Spectroscopy to Erodibility Studies of the Soil,
W76-06140 9-12 2J

ALLEGHENY COLL., MEADVILLE, PA. DEPT. OF BIOLOGY.

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ALLEN COUNTY SOIL AND WATER CONSERVATION DISTRICT, FORT WAYNE, IND.

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Plant Protects A Recreational Lake,
W76-05770 9-12 5I

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W76-07656 9-15 5D

Important Aspects of Phosphorus Analysis,
W76-10241 9-19 5A

ALLIED CHEMICAL CORP., MORRISTOWN, N. J. INDUSTRIAL CHEMICAL DIV.

Alum VS. Phosphate--Wastewater Treatment,
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W76-00171 9-01 3A

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Modular Container,
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ALVAR ALUMINIO ARGENTIA, CANGALLO. AREA INVESTIGACION Y DESARROLLO.

Dynamics of the Root System of Blue Grama,
W76-13123 9-24 2I

ALVORD, BURDICK AND HOWSON, CHICAGO, ILL.

History and Development of AWWA Standards,
W76-05096 9-11 5G

ALWATECH A/S, OSLO (NORWAY).

Protein and Fat Recovery from Effluents,
W76-08172 9-16 5D

ALYESKA PIPELINE SERVICE CO., ANCHORAGE, ALASKA.

Network Models and the Impact of Modeling Assumptions,
W76-10196 9-19 4A

AX, INC., DENVER, COLO. LAW DEPT.
ining and the Federal Water Pollution Control
t Amendments of 1972,
76-05193 9-11 5G

AX RESOURCE RECOVERY SYSTEMS,
, DAYTON, OHIO. (ASSIGNEE).
ocess for the Treatment of Mineral Slimes,
76-05973 9-12 5D

IONICS, INC., WASHINGTON, D.C.
emote Sensing of Coal Mine Pollution in the
per Potomac River Basin.
76-01831 9-04 5B

ERICAN COLLOID CO., SKOKIE, ILL.
IGNEE).
ethod and Composition for Preventing Water
ntaminated with Industrial Waste from Seep-
g Through Soil Containing Said Water,
76-09858 9-18 5G

ERICAN CRYSTAL SUGAR CO., EAST
ND FORDS, MINN.
paration, Dewatering and Disposal of Sugar
et Transport-Water Solids,
76-02783 9-06 5D

ERICAN CYANAMID CO., STAMFORD,
NN. (ASSIGNEE).
ocess for Treating Sewage Sludge,
76-00567 9-02 5D

cologically Acceptable Method of Breaking
ineral Oil Emulsions-Suspensions,
76-02775 9-06 5G

egular Alternating Copolymers of Styrene and
nidazolines and their Derivative,
76-04597 9-10 5D

eaching Polyelectrolyte Fluidized Solids,
76-05536 9-12 5D

ationic Acrylamide-Styrene Copolymers and
locculation of Sewage Therewith,
76-09434 9-18 5D

ERICAN INST. OF CHEMICAL
GINEERS, N.Y.
dvances in Interfacial Phenomena of Particu-
te/Solution/Gas Systems; Applications to
lotation Research,
76-10627 9-20 5D

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GINEERS, NEW YORK.
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76-05314 9-11 5D

ERICAN MUSEUM OF NATURAL
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lastic Particles Found in Tern Pellets, on
oastal Beaches and at Factory Sites,
76-11720 9-22 5B

ERICAN OIL CO., WHITING, IND.
ertiary Treatment of Process Water,
76-01634 9-04 5D

ERICAN PETROLEUM INST.,
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nd Control of Oil Spills, March 13-15, 1973,
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76-09312 9-17 5B

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hysical and Settling Characteristics of Particu-
ates in Storm and Sanitary Wastewaters,
76-00372 9-01 5D

Review of American Public Works Association Study of Facilities Utilizing Land Application of Wastewater,
W76-03542 9-08 5D

The Helical Bend Combined Sewer Overflow Regulator,
W76-07246 9-14 5D

An Analysis of U. S. Environmental Protection Agency's Needs Survey,
W76-08195 9-16 5G

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Managing Livestock Wastes.
W76-07154 9-14 5D

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Special Characteristics of Urban Hydrology,
W76-04138 9-09 2A

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ASCE Urban Water Resources Research Program,
W76-02939 9-06 2A

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W76-03005 9-07 6A

Household Water Use,
W76-05353 9-11 6D

Water Use in Selected Commercial and Institutional Establishments in the Baltimore Metropolitan Area,
W76-05452 9-11 6D

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Agricultural Waste Management,
W76-00744 9-02 5G

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Underground Liquid Waste Disposal,
W76-11888 9-22 5E

AMERICAN SOCIETY OF INTERNATIONAL LAW, WASHINGTON, D.C.
Alternate Approaches to Order: International Ocean Organization and Their Regulatory Functions,
W76-07341 9-14 6E

Commentary On: Alternate Approaches to Order: International Ocean Organizations and Their Regulatory Functions,
W76-07343 9-14 6E

Settlement of Disputes Under the Law of Ocean Use, With Particular Reference to Environmental Protection,
W76-12005 9-22 6E

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Local Land Use Control Over Critical Areas,
W76-01790 9-04 6E

Performance Controls for Sensitive Lands: A Practical Guide for Local Administrators,
W76-01871 9-04 6F

AMERICAN UNIV., BEIRUT (LEBANON). DEPT. OF BIOLOGY.
Effects of Crude Oil and Dispersants on Bi-Valves,
W76-11591 9-21 5C

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Social Science Data Banks and the Institute for Water Resources,
W76-05822 9-12 6B

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Applications of ERTS Data to Coastal Wetland Ecology with Special Reference to Plant Community Mapping and Typing and Impact of Man,
W76-02036 9-05 7B

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W76-08319 9-16 2L

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W76-06938 9-14 5G

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Organic Contaminants in Water Supplies.
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Interdisciplinary Aspects of Water Resources Planning and Management,
W76-00061 9-01 6B

AMERON PIPE PRODUCTS GROUP, EL MONTE, CALIF. SOUTHERN CALIFORNIA DIV.
A Fail-Safe Subaqueous Concrete Sewer,
W76-02171 9-05 8F

AMES CROSTA MILLS AND CO., HEYWOOD (ENGLAND).
Application of Reverse Osmosis in Water Conservation and Treatment in the Motor Industry,
W76-03992 9-08 5D

AMES LAB., IOWA.
Organics in Drinking Water, Part I-Listing of Identified Chemicals,
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Organics in Drinking Water. Part II. Mass Spectral Identification Data,
W76-12812 9-24 5A

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W76-04052 9-09 8G

How to Avoid Downhole Failures and Maximize Pipe Use,
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Evaluation of Anisotropic, Ionogenic Membranes (Diaflo UM-Series) for selective Removal of Divalent Cations and Anions from Brackish Water by Reverse Osmosis,
W76-03155 9-07 3A

AMOCO OIL CO., YORKTOWN, VA.
Chemical Coagulation/Mixed Media Filtration of Aerated Lagoon Effluent,
W76-02763 9-06 5D

AMOCO PRODUCTION CO. TULSA, OKLA.
Pulse-Testing Response for Unequal Pulse and Shut-In Periods,
W76-03371 9-07 4B

Solution for Radial-Flow with Nonlinear Adsorption,
W76-08345 9-16 5B

AMOCO PRODUCTION CO., TULSA, OKLA. (ASSIGNEE).
Removing Oil from Waste Water with Sulfur,
W76-11838 9-22 5G

AMOS TUCK SCHOOL OF BUSINESS ADMINISTRATION, HANOVER, N.H.
Optimal Leasing Policy for the Development of Outer Continental Shelf Hydrocarbon Resources,
W76-02375 9-05 6E

The Economics of Alternative Deep Seabed Regimes,
W76-05816 9-12 6E

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Further Observations on the Migration of Gammarus Zaddachisexton (Crustacea, Amphipoda) in a French Stream,
W76-06046 9-12 2I

Simulation Experiments on the Migration of Gammarus Zaddachi and Gammarus Chevreuxi,
W76-12724 9-24 5C

ANALYSIS AUTOMATION LTD., OXFORD (ENGLAND).
Monitoring for Organic Pollutants in Great Britain,
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ANCONA UNIV. (ITALY). FACULTY OF MEDICINES AND ANCONA UNIV. (ITALY). CHEMISTRY LAB.
The Use of Chitosan Columns for the Removal of Mercury from Waters,
W76-06239 9-13 5A

ANDCO, INC., BUFFALO, N.Y. (ASSIGNEE).
Drip Irrigation Method,
W76-03000 9-06 3F

Drip Irrigation System,
W76-03010 9-07 3F

Electrochemical Removal of Fluoride Ion from Aqueous Media,
W76-05023 9-11 5D

Electrochemical Contaminant Removal from Aqueous Media,
W76-05024 9-11 5D

ANDERSON CLAYTON FOODS, INC., SHERMAN, TEX.
Water-Recycle Washing of Refined Soybean Oil: Plant Scale Evaluation,
W76-08171 9-16 3E

ANDHRA PRADESH UNIV., HYDERABAD (INDIA). AGRICULTURAL RESEARCH INST.
The Physico-Chemical Changes of Newly Flooded Soils,
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Titration of Antimony (III) with Cerium (IV) Sulphate and Diphenylamine and its Derivatives as Reversible Indicators,
W76-09040 9-17 5A

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On The Rainfall and Water Potential of Nepal,
W76-09642 9-18 2B

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W76-00727 9-02 5A

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W76-04744 9-10 5D

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Process for Dewatering a Proteinaceous, Aqueous Sludge and for Removing and Recovering Precipitating Agents from a Precipitate Containing Proteinaceous Substances,
W76-06478 9-13 5D

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Hydrogen Peroxide Solves Sludge Odor Problem,
W76-10211 9-19 5D

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W76-00168 9-01 3A

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W76-09518 9-18 5D

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W76-02018 9-05 5C

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W76-08718 9-16 5C

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W76-08784 9-17 2L

A Study of the Infralittoral Population of the Coast of Roussillon: III. Spatial and Seasonal Variations, (In French),
W76-08898 9-17 2L

An Estimation of Total Production of Planktonic Copepods in Neritic Zone of the Golfe Dulion (Banyuls-Sur-Mer): I. Quantitative Annual Variation, (In French),
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W76-12820 9-24 2L

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W76-12546 9-23 4A

ARGONNE NATIONAL LAB., ARGONNE, ILL. RADIOLOGICAL AND ENVIRONMENTAL RESEARCH DIV.
Distribution of Diatom Frustules in Lake Michigan Sediment Cores,
W76-05882 9-12 5C

Distribution of Amorphous, Diatom Frustule, and Dissolved Silica in a Lead-210 Dated Core from Southern Lake Michigan,
W76-05883 9-12 5C

Stable Lead Geochronology of Fine-Grained Sediments in Southern Lake Michigan,
W76-05884 9-12 5B

Miami River Watershed Project: Introduction,
W76-05886 9-12 5B

Plutonium Concentrations in Water and Suspended Sediment from the Miami River Watershed, Ohio,
W76-05887 9-12 5B

Plutonium in Aquatic Biota of the Great Miami River Watershed, Ohio,
W76-05888 9-12 5C

The Chemical Speciation of PU-239, PU-240 and CS-137 in Lake Michigan Waters,
W76-05889 9-12 5B

Effect of Municipal Treatment Processes on PU-239, PU-240, and CS-137,
W76-05890 9-12 5F

Sedimentary Pu-239, Pu-240 Phase Distributions in Lake Michigan Sediments,
W76-05891 9-12 5B

The Distribution of Plutonium in Lake Michigan Sediments,
W76-05892 9-12 5B

Developments in Underwater Radiotelemetry and Preliminary Fish Tracking in Thermal Plumes,
W76-05893 9-12 5C

Comparison of the Movement and Recapture of Salmonid Fishes Tagged at Two Power Plants,
W76-05894 9-12 5C

Origin of Fin-Clipped Salmonids Collected at Two Thermal Discharges on Lake Michigan,
W76-05895 9-12 5C

Effects of Season, Location, and Discharge Type on Fish Distribution and Density in Thermal Plumes,
W76-05896 9-12 5C

Characteristics of Temperature-Sensitive Fish Tags Used in 1974,
W76-05897 9-12 5C

Discharge Residence of TLD Tagged Fish,
W76-05898 9-12 5C

Body Temperature Change Characteristics of Lake Michigan Fishes,
W76-05899 9-12 5C

Body Temperatures of Fish Feeding in The Point Beach Thermal Discharge,
W76-05900 9-12 5C

RGONNE NATIONAL LAB., ILL.

Analysis of Three Years of Complete-Field Temperature Data From Different Sites of Heated Surface Discharges into Lake Michigan,
W76-02683 9-06 5B

Body-Temperature Characteristics of Fish at a Thermal Discharge on Lake Michigan,
W76-03469 9-07 5C

Meteorological Consequences of Thermal Discharge from Nuclear Power Plants--Research Needs,
W76-04813 9-10 5B

Comparison of Thermal Scanning and In Situ Techniques for Monitoring Thermal Discharges,
W76-05156 9-11 5B

Study of the Behaviour of Transuranics and Possible Chemical Homologues in Lake Michigan Water and Biota,
W76-08598 9-16 5C

Plutonium and Americium in Lake Michigan Sediments,
W76-08606 9-16 5C

Behavioural Responses of Lake Michigan Fishes to a Nuclear Power Plant Discharge,
W76-08876 9-17 5C

Ohio River Cooling Water Study,
W76-10414 9-19 5C

Nearshore Currents at Point Beach, Wisconsin (1974-1975),
W76-12758 9-24 7B

Measurements of Physical Phenomena Related to Power Plant Waste Heat Discharges: Lake Michigan, 1973 and 1974,
W76-12770 9-24 5B

Thermal Plume Mapping,
W76-12771 9-24 5B

Measurements of Eddy Diffusivities in Nearshore Regions of Lake Michigan,
W76-12772 9-24 5B

A Comparison of Aerial Infrared and Boat Oriented Thermal Plume Measurement Techniques,
W76-12773 9-24 5B

Near Shore Lake Current Investigations,
W76-12774 9-24 5B

Field Observation of the Dynamics of Heated Discharge Jets,
W76-12775 9-24 5B

Does Water Use Restrict the Location of Industrial Air Polluters,
W76-12950 9-24 5G

ARGONNE NATIONAL LAB., ILL. ENERGY AND ENVIRONMENTAL STUDIES DIV.

A Methodology to Measure the Performance of the EPA Regional EIS Review Process,
W76-12583 9-23 6G

ARGONNE NATIONAL LAB. ILL. ENERGY AND ENVIRONMENTAL SYSTEMS DIV.

Field Studies of the Thermal Plume from the D. C. Cook Submerged Discharge with Comparisons to Hydraulic-Model Results,
W76-06673 9-13 5B

Field Observations of the Dynamics of Heated Discharge Jets,
W76-11307 9-21 5B

Mixing and Transport, (Literature Review),
W76-12672 9-23 5B

ARGONNE NATIONAL LAB., ILL. RADIOLOGICAL AND ENVIRONMENTAL RESEARCH DIV.

Fish Behavior at a Thermal Discharge into Lake Michigan,
W76-02012 9-05 5C

Radiological and Environmental Research Division Annual Report - Ecology, January-December 1974.
W76-05879 9-12 5C

ARIZONA GAME AND FISH DEPT., PHOENIX.

Role of Copepod Fecal Pellets in the Vertical Transport of Freshwater Diatoms,
W76-05880 9-12 5C

Vertical Transport of Particulate Material in Lake Michigan by the Lorica of Codonella Cratera,
W76-05881 9-12 5C

Growth of Plume Resident Fishes in Lake Michigan,
W76-05901 9-12 5C

Effect of Plume Residence on the Accumulation of Cs137 by Lake Michigan Salmonids,
W76-05902 9-12 5C

Migratory Behavior of Fish Tagged at a Nuclear Power Plant Discharge Into Lake Michigan,
W76-11281 9-21 2H

Plutonium Distribution in Lake Michigan Biota,
W76-11287 9-21 2H

Studies of Plutonium Cycling and Sedimentation in Lake Michigan,
W76-11292 9-21 5B

Cesium 137 Activities in Fish Residing in Thermal Discharges to Lake Michigan,
W76-12738 9-24 5C

ARICONA UNIV., TUCSON. DEPT. OF AGRICULTURAL ECONOMICS.

Cost of Producing Crops in the Irrigated Southwest: Part III - Nevada,
W76-00383 9-01 3F

ARIZONA AGRICULTURAL EXPERIMENT STATION, TUCSON.

Soil Crusts.
W76-00517 9-02 2G

Economic Alternatives in Solving the U.S.-Mexico Colorado River Water Salinity Problem,
W76-02226 9-05 3A

Effects of Treated Municipal Wastewater on Oat Forage and Grain,
W76-10119 9-19 5D

ARIZONA AGRICULTURAL EXPERIMENT STATION, YUMA. DEPT. OF SOILS, WATER, ENGINEERING AND PLANT SCIENCES.

Fertilization, Nutrient Composition, and Yield Relationships in Irrigated Spring Wheat,
W76-10177 9-19 3F

ARIZONA BUREAU OF MINES, TUCSON.

Arizona's Water Supply-Some Reflections,
W76-10183 9-19 4A

Utilization of Clear Water Sewage Effluent in Mineral Processing,
W76-12464 9-23 5D

ARIZONA ENVIRONMENTAL PLANNING COMMISSION, PHOENIX; AND ARIZONA HOUSE OF REPRESENTATIVES, PHOENIX.

Governmental Control of Land Use in Arizona (Preliminary Draft),
W76-00183 9-01 6A

ARIZONA GAME AND FISH DEPT., PHOENIX.

A Study of the Mexican Duck (Anas Diazi) in Southeastern Arizona,
W76-00381 9-01 2I

ARIZONA PUBLIC SERVICE CORP., PHOENIX.

ARIZONA PUBLIC SERVICE CORP., PHOENIX.
City Waste Water Reuse for Nuclear Power Plant Cooling,
W76-00760 9-02 5D

ARIZONA RESOURCES INFORMATION SYSTEM, PHOENIX. DEPT. OF REVENUE.
The Arizona Resources Information System - 1975,
W76-02736 9-06 6B

ARIZONA STATE DEPT. OF HEALTH, PHOENIX.
Arizona Rules and Regulations for Sewerage Systems and Waste Treatment Works.
W76-04368 9-09 5G

ARIZONA STATE DEPT. OF HEALTH, PHOENIX. ENVIRONMENTAL HEALTH SERVICE.
Arizona Water Pollution Control Law.
W76-04367 9-09 5G

ARIZONA STATE DEPT. OF HEALTH SERVICES, PHOENIX.
The Septic Tank--A Method of Sewage Disposal for Private or Public Buildings,
W76-11892 9-22 5D

Minimum Requirements for Design, Submission of Plans and Specifications of Sewage Works.
W76-11893 9-22 5D

ARIZONA STATE FUEL AND ENERGY OFFICE, PHOENIX.
Proceedings, Conference on Water Requirements for Lower Colorado River Basin Energy Needs.
W76-00745 9-02 6D

ARIZONA STATE UNIV., TEMPE.
Hydrology of the Salt River and its Reservoirs, Central Arizona,
W76-00189 9-01 2H

Non-Conservation in Arizona: Estimates of Some Costs,
W76-00191 9-01 4C

Watershed Indicators of Landform Development,
W76-02739 9-06 4D

Dynamics of Marsh Land Formation and Succession Along the Lower Colorado River and Their Importance and Management Problems as Related to Wildlife in the Arid Southwest,
W76-06589 9-13 4A

Pareto Optimality, Pure Public Goods, Impure Public Goods and Multiregional Spillovers,
W76-06620 9-13 6B

Intertemporal and Intergenerational Pareto Efficiency,
W76-07142 9-14 6B

A Preliminary Water and Energy Budget Analysis of Montezuma Well, Arizona,
W76-09072 9-17 4B

Plant Survival in the Arid Southwest 30 Years After Seeding,
W76-13128 9-24 4A

ARIZONA STATE UNIV., TEMPE. COLL. OF ENGINEERING SCIENCES.
The Impact of Vacation Homes on National Forest Water Resources,
W76-11366 9-21 5G

ARIZONA STATE UNIV., TEMPE. DEPT. OF BOTANY AND MICROBIOLOGY.
The Phytoplankton of Canyon Lake, Arizona,
W76-02459 9-05 5C

Productivity and Flowering of Winter Ephemerals in Relation to Sonoran Desert Shrubs,
W76-02526 9-06 2I

Conversion of Chaparral to Grass in Central Arizona: Effects on Selected Ions in Watershed Runoff,
W76-02527 9-06 5B

ARIZONA STATE UNIV., TEMPE. DEPT. OF ZOOLOGY.
The Planktonic Crustaceans of Moncove Lake, Monroe County, W. Va.,
W76-06214 9-13 5C

ARIZONA UNIV., TUCSON.
Weather Modification Law Developments,
W76-00923 9-02 2B

Ex-Post Evaluation of River Basin Developments in Pakistan,
W76-05748 9-12 6A

Cost of Producing Crops in the Irrigated Southwest, Part V: Utah,
W76-09063 9-17 3F

Sediment Loading, its Effect on a southern Arizona Lake and the Emerging Spring Zooplankton Community,
W76-09073 9-17 2J

Growth, Water Consumption, and Salt Uptake of Tomato Plants in High Humidity- High Carbon Dioxide Greenhouse Environments,
W76-09075 9-17 3C

Arizona Energy: A Framework for Decision.
W76-09484 9-18 6D

Management of Water Resources Under Different Socio-Economic Conditions,
W76-12626 9-23 6B

ARIZONA UNIV., TUCSON. COLL OF LAW.
Arizona Ground Water Law: The Need for Legislation,
W76-00188 9-01 6D

Ground Water Law: Problem Areas,
W76-04334 9-09 4B

Text and Commentary for Weather Modification Control Law,
W76-10809 9-20 3B

ARIZONA UNIV., TUCSON. COMMITTEE ON ARID LANDS RESOURCES.
Management of Water Resources Under Different Socio-Economic Conditions,
W76-11514 9-21 6B

ARIZONA UNIV., TUCSON. DEPT. OF AGRICULTURAL CHEMISTRY AND SOILS.
Relating Agricultural Instruction to Environment Improvement: The Role of Land and Soil,
W76-12354 9-23 5G

ARIZONA UNIV., TUCSON. DEPT. OF AGRICULTURAL ECONOMICS.
Outdoor Recreation in the Salt-Verde Basin of Central Arizona: Demand and Value,
W76-00382 9-01 6B

Impact of Nitrate Fertilizer Restrictions on Salt River Project and Roosevelt Water Conservation District Growers,
W76-01114 9-03 5C

Economic Adjustment to a New Irrigation Water Source: Pinal County, Arizona and the Central Arizona Project,
W76-02737 9-06 3F

Evaluation of Agricultural Adjustment to Irrigation Water Salinity: A Case Study for Pinal County, Arizona,
W76-04004 9-09 3C

Economic Magnitudes and Economic Alternatives in Lower Basin use of Colorado River Water,
W76-05811 9-12 3A

Costs are Soaring: Irrigating from the Underground,
W76-06586 9-13 3F

The Economics of Converting Natural Gas-Powered Irrigation Pumps to Alternate Energy Sources in Southeastern Arizona,
W76-06588 9-13 3F

Cost of Producing Crops in the Irrigated Southwest, Part II: New Mexico,
W76-09475 9-18 3F

Problems and Solutions in Estimating the Demand for and Value of Rural Outdoor Recreation,
W76-09633 9-18 6D

A Linear Programming Model for Use in Guiding Urban Floodplain Management,
W76-09849 9-18 6F

Problems and Solutions in Estimating the Demand for and Value of Rural Outdoor Recreation,
W76-10585 9-20 6B

ARIZONA UNIV., TUCSON. DEPT. OF AGRONOMY AND PLANT GENETICS.
Influence of Treated Municipal Waste Water on Growth, Fiber, Acid-Soluble Nucleotides, Protein, and Amino Acid Content in Wheat Grain,
W76-03690 9-08 5E

Seed Germination, Respiration and Mitochondrial Efficiency of Three Alfalfa (Medicago Sativa L.) Cultivars Subjected to NACL Salinity,
W76-06264 9-13 3C

Effect of Cultural Practices on Grain Yield and Yield Components in Irrigated Wheat,
W76-10176 9-19 3F

ARIZONA UNIV., TUCSON. DEPT. OF CIVIL ENGINEERING AND ENGINEERING MECHANICS.
Advanced Processes: Water Desalting and Reuse,
W76-00756 9-02 5D

Investigations of the APAC Water Seepage Barrier,
W76-01115 9-03 8G

An Analysis Of Border Irrigation Flow,
W76-02728 9-06 3F

Soil Stabilization with Powdered and Coarse Quicklime,
W76-08422 9-16 8D

Scour and Fill Patterns in Pool-Rapid Rivers,
W76-11511 9-21 2J

Flocculation of Wastewater with Polyelectrolytes and Ferric Chloride,
W76-11520 9-21 5D

ZONA UNIV., TUCSON. DEPT. OF
LOGY AND EVOLUTIONARY BIOLOGY.
silience of a Rocky Intertidal Fish Communi-
in a Physically Unstable Environment,
76-09126 9-17 5C

ZONA UNIV., TUCSON. DEPT. OF
SCIENCES.
Preliminary Analysis of the Energy and
ter Requirements for Developing Geother-
l Energy in Arizona,
76-00750 9-02 6D

oundwater Resources: Evaluation and Ex-
itation,
76-00812 9-02 4B

ometric Change of Landforms,
76-03384 9-07 4A

othermal Water Resources in Arizona:
asibility Study,
76-04005 9-09 4B

positional Models and the Shinarump
mber and the Sonsela Sandstone Bed of the
inle Formation Northeastern Arizona and
rthwestern New Mexico,
76-06258 9-13 2J

te Pleistocene and Modern Plant Communi-
of Shinumo Creek and Peach Springs
sh, Lower Grand Canyon, Arizona,
76-09074 9-17 2I

ONA UNIV., TUCSON. DEPT. OF
ERNMENT.
Politics of Information: The Social Well-
ng Objective,
6-05359 9-11 6B

ONA UNIV., TUCSON. DEPT. OF
ROLOGY AND WATER RESOURCES.
gnitive Strawman: Public Input to A Water
ource Planning System,
6-01110 9-03 6B

alysis of a Multipurpose Water Resource
tem in Southeastern Mexico,
6-02157 9-05 6A

sh Water for Arizona by Salt Replacement
alination,
6-02231 9-05 3A

Deterministic Model for Semi-Arid
chments,
6-02235 9-05 2E

Effect of Development on Groundwater in
Parker Strip,
6-02236 9-05 5B

roved Stochastic Dynamic Programming
Optimal Reservoir Operation Based on the
mptotic Convergence of Benefit Dif-
nces,
6-02729 9-06 4A

lication of the Sagar Method for the Solu-
of the Inverse Problem in Ground-Water
rology,
6-02730 9-06 2F

ability of Infiltration Characteristics and
er Yield of a Semi Arid Catchment,
6-02742 9-06 2G

Application of Step-Drawdown Pumping
s for Determining Well Losses in Con-
lated Rock Aquifers,
6-02747 9-06 4B

Stochastic Reservoir Models: Relative Computational Effort,
W76-04557 9-10 4A

Comment on 'Chance-Constrained Dynamic Programming and Optimization of Water Resource Systems' by Arthur J. Askew,
W76-04567 9-10 4A

Application of Bayesian Decision Theory in Well Field Design,
W76-04928 9-10 4B

Physicochemical Transformations of Sewage Effluent Releases in an Ephemeral Stream Channel,
W76-05018 9-11 5A

Finite State Mixing-Cell Models,
W76-06594 9-13 2F

Identification of Linear Systems Response by Parametric Programing,
W76-09575 9-18 2E

On The Joint Distribution of the Largest Flood and its Time of Occurrence,
W76-11694 9-22 2E

Wetting Front Pressure Head in the Infiltration Model of Green and Ampt,
W76-12839 9-24 2G

Vertical Temperature and Chemical Gradients in Groundwater in the Tucson Basin, Arizona,
W76-13129 9-24 4B

ARIZONA UNIV., TUCSON. DEPT. OF HYDROLOGY AND WATER RESOURCES; AND ARIZONA UNIV., TUCSON. DEPT. OF SYSTEMS AND INDUSTRIAL ENGINEERING.
Trade-Off Between Models and Information in River Basin Planning,
W76-11702 9-22 4A

ARIZONA UNIV., TUCSON. DEPT. OF MANAGEMENT.
Maximum Information Obtainable from Inadequate Design Data: from Multivariate to Bayesian Methods,
W76-09625 9-18 4A

ARIZONA UNIV., TUCSON. DEPT. OF MATHEMATICS.
Time-Dependent Linearized Infiltration: II. Line Sources,
W76-03007 9-07 2G

ARIZONA UNIV. TUCSON. DEPT. OF MICROBIOLOGY AND MEDICAL TECHNOLOGY.
Microbial Enhancement of Phosphorus Removal in Sludge Sewage Systems,
W76-02452 9-05 5D

ARIZONA UNIV., TUCSON. DEPT. OF NUCLEAR ENGINEERING.
Water and Energy Requirements to Mine, Process, and Reprocess Nuclear Fuels,
W76-00752 9-02 6D

Water Consumption and Power Plant Heat Rejection,
W76-00758 9-02 3E

Water Resource Alternatives for Power Generation in Arizona,
W76-02243 9-05 3E

Feasibility Study of a Nuclear Power-Sewage Treatment System for the Conservation and Reclamation of Water Resources,
W76-10614 9-20 5D

ARIZONA UNIV., TUCSON. DEPT. OF PHYSICS.
Applications of Direct Osmosis: Design Characteristics for Hydration and Dehydration,
W76-02745 9-06 5D

ARIZONA UNIV., TUCSON. DEPT. OF SOILS, WATER AND ENGINEERING.
Effect of Salts and Salts Plus Nitrogen-15-Labeled Ammonium Chloride on Mineralization of Soil Nitrogen, Nitrification, and Immobilization,
W76-00735 9-02 3C

A Two-Phase Model for the Miscible Displacement of Reactive Solutes in Soils,
W76-00826 9-02 3C

The Effect of Texture Stratification on Salt Accumulation in an Arid Land Soil,
W76-01112 9-03 2K

Effect of Sulfuric Acid on Water Movement in Calcareous Soils,
W76-01124 9-03 3B

Percolation Tests for Septic Tank Suitability of Typical Southern Arizona Soils,
W76-01128 9-03 2G

Analytical Solutions to the One-Dimensional Linearized Moisture Flow Equation for Arbitrary Input,
W76-01301 9-03 2G

A Rational Water Policy for Desert Citites,
W76-02229 9-05 3D

Application of Remote Sensing in Floodway Delineation,
W76-02244 9-05 7B

Hydrologic Aspects of Land-Use Planning at Tumamoc Hill, Tucson, Arizona,
W76-02245 9-05 4A

Modeling Soil Water Movement for Trickle Irrigation,
W76-02365 9-05 2G

Sulfuric Acid for Reducing Sodium Hazard of Irrigation Water,
W76-02666 9-06 3C

Spatial Variability of Water Related Soil Physical Properties,
W76-02676 9-06 2G

Phosphorus Sorption and Desorption in Calcareous Soils from Arizona,
W76-02677 9-06 2G

Management for the Control of Salts in Irrigated Soils,
W76-02679 9-06 3C

Solution to the One-Dimensional Linear Moisture Flow Equation with Water Extraction,
W76-03008 9-07 2G

Effect of Surface Applied Sulfuric Acid on Water Penetration into Dry Calcareous and Sodic Soils,
W76-05907 9-12 5G

Soluble Salts and Nitrate Distribution in Irrigated Lettuce Beds,
W76-08763 9-17 3C

Potentially Beneficial Uses of Sulfuric Acid in Southwestern Agriculture,
W76-08766 9-17 3F

ARIZONA UNIV., TUCSON. DEPT. OF SOILS, WATER AND ENGINEERING.

The Use of Carbon Dioxide in Sampling and Preserving Natural Leachates,
W76-11634 9-22 5A

Well Cuttings Analysis in Ground-Water Resources Evaluation,
W76-13036 9-24 8G

ARIZONA UNIV., TUCSON. DEPT. OF SYSTEMS AND INDUSTRIAL ENGINEERING.

Uncertainty in Sediment Yield From A Semi-Arid Watershed,
W76-02240 9-05 2J

A Direct Method for the Identification of the Parameters of Dynamic Nonhomogeneous Aquifers,
W76-02943 9-06 2F

A Continuous Review Inventory Model for Irrigation Water Application,
W76-05019 9-11 3F

Uncertainties in Karstic Water Resources Systems,
W76-06595 9-13 2F

ARIZONA UNIV., TUCSON. DEPT. OF SYSTEMS AND INDUSTRIAL ENGINEERING; AND ARIZONA UNIV., TUCSON. DEPT. OF HYDROLOGY AND WATER RESOURCES.

Decision Making and Planning for River Basin Development,
W76-05752 9-12 6A

Mountainous Winter Precipitation: A Stochastic Event-Based Approach,
W76-09062 9-17 2B

The Role of New Technologies for Improved Water Management and Related Effects on Water Law Systems,
W76-09065 9-17 3E

ARIZONA UNIV. TUCSON. DEPT. OF WATERSHED MANAGEMENT.

Rehabilitation of Land Disturbed by Surface Mining Coal in Arizona,
W76-00709 9-02 5G

The Utilization of Tree-Ring Data to Predict Hydrologic Properties of Semiarid Watersheds Near Tucson, Arizona,
W76-01113 9-03 2E

Snowpack Dynamics in Relation to Inventory-Prediction Variables in Arizona Mixed-Conifer,
W76-01123 9-03 2A

Validation of Snowpack Inventory Prediction Relationships in Arizona Ponderosa Pine Forests,
W76-01127 9-03 2A

A Bacterial Water Quality Investigation of Canyon Lake,
W76-02232 9-05 5B

Use of Areal Snow Cover Measurements to Develop Snowmelt-Runoff Relationships for Arizona,
W76-02453 9-05 2C

A Watershed Volume Response Model Considering Contributing Area,
W76-02523 9-06 2A

Predicting Snowmelt Runoff Using a Deterministic Watershed Model with Stochastic Precipitation Inputs,
W76-02664 9-06 2A

The Historical Potential of Snowfall as a Water Resource in Arizona,
W76-02675 9-06 3B

Water Resources Management for Part of the Lower Gila Valley,
W76-02678 9-06 3F

Streamflow Hydrology and Simulation of the Salt River Basin in Central Arizona,
W76-02731 9-06 4A

Sediment Yield of Selected Watersheds West of the Great Plains,
W76-02971 9-06 2J

ARIZONA UNIV., TUCSON. DIV. OF ECONOMIC AND BUSINESS RESEARCH.

Arizona Energy Inventory: A Report on the State's Energy Position and Outlook to 1985,
W76-00196 9-01 6B

Arizona Energy Inventory: A Report on the State's Energy Position and Outlook to 1985,
W76-01709 9-04 6B

ARIZONA UNIV., TUCSON. ECONOMIC AND BUSINESS RESEARCH.

Energy Costs of Wastewater Reuse,
W76-12215 9-23 5D

ARIZONA UNIV., TUCSON. ENGINEERING EXPERIMENT STATION.

Power Generation in Arizona and Its Environmental Implications,
W76-09485 9-18 6D

ARIZONA UNIV., TUCSON. ENVIRONMENTAL RESEARCH LAB.

Potential for Agriculture Utilizing Waste Heat from Power Plants,
W76-00757 9-02 3C

Toxicity of Some Chemical Therapeutics to the Commercial Shrimp, Penaeus Californiensis,
W76-08796 9-17 5C

ARIZONA UNIV., TUCSON, INST. OF RENEWABLE NATURAL RESOURCES.

Environmental Considerations in River Basin Planning and Decision Making,
W76-05510 9-12 4A

ARIZONA UNIV., TUCSON. LAB. OF TREE-RING RESEARCH.

Long-Term Streamflow Records Reconstructed from Tree Rings,
W76-01708 9-04 2B

Riparian Dendrochronology: A Method for Determining Flood Histories of Ungaged Watersheds,
W76-11523 9-21 4A

ARIZONA UNIV., TUCSON. OFFICE OF ARID LAND STUDIES.

Orbital and High Altitude Imagery as a Management Tool for Land use and Flood Hazard Studies,
W76-06262 9-13 4A

ARIZONA UNIV., TUCSON. OFFICE OF ARID LANDS STUDIES.

Remote Sensing as an Aid to Community Development in an Arid Area,
W76-02165 9-05 7B

Remote Sensing of Resources in Arid Lands,
W76-06260 9-13 7A

Continuation of the Arizona Water Information System (AWIS),
W76-12216 9-23 10D

ARIZONA UNIV., TUCSON. OPTICAL SCIENCES CENTER.

Environmental Aspects of Solar Energy Applications,
W76-00755 9-02 3

ARIZONA UNIV., TUCSON. SCHOOL OF RENEWABLE NATURAL RESOURCES.

An Evaluation of the Rainbow Trout-Warmwater Species Fishery in Parker Canyon Lake,
W76-02454 9-05 2

Strip Mining and Reclamation on the Black Mesa of Arizona,
W76-02670 9-06 5

Describing Snowpacks in Arizona Mixed Conifer Forests with a Storage-Duration Index
W76-02744 9-06 2

Application of Direct Osmosis: Possibilities for Reclaiming Wellton-Mohawk Drainage Water,
W76-02746 9-06 5

Measuring Snow Cover from ERTS Imagery on the Black River Basin,
W76-02756 9-06 2

Antitranspirants as a Possible Alternative to the Eradication of Saltcedar Thickets,
W76-04929 9-10 3

Vegetation Management for Water and Range Improvement,
W76-06598 9-13 3

Decision Analysis for Watershed Management Alternatives,
W76-06905 9-14 4

Predicting Snowmelt Runoff Using a Deterministic Watershed Model with Stochastic Precipitation Inputs,
W76-07764 9-15 2A

Water Yield Improvement by Vegetation Management: Focus on Arizona,
W76-08539 9-16 3B

Distribution of Ponderosa Pine Forest Densities on the Salt-Verde River Basin,
W76-09477 9-18 4A

Water Quality of Streamflow from Ponderosa Pine Forest Watersheds on Sedimentary Soils,
W76-11490 9-21 5A

ARIZONA UNIV., TUSCON. DEPT. OF MANAGEMENT.

The Use of Multiple Regression Models in Predicting Sediment Yield,
W76-11693 9-22 2J

ARIZONA UNIV., TUSCON. DEPT OF SOILS, WATER, AND ENGINEERING.

Percolation Tests for Septic Tank Suitability in Southern Arizona Soils,
W76-10248 9-19 5D

ARIZONA WATER COMMISSION, PHOENIX.

Arizona State Water Plan, Phase I: Inventory of Resource and Uses,
W76-00700 9-02 6B

Water for Energy as Related to Water Rights in the Colorado River Basin,
W76-00748 9-02 6D

State Water Planning,
W76-02735 9-06 6E

IZONA WATER RESOURCES COMMITTEE, OENIX; AND ARIZONA WATER MMISSION, PHOENIX.
More Water for Arizona.
W76-06261 9-13 3B

IZONA WATER RESOURCES RESEARCH NTER, TUCSON.
Steady Vertical Flows in Swelling Soils,
W76-00286 9-01 2G

Development of Asphalt Cushioned Plastic Reinforced Asphalt Membranes for Seepage Control,
W76-01812 9-04 3B

United States-Mexico Water Agreements and Related Water use in Mexicali Valley: A Summary,
W76-02227 9-05 3C

Metropolitan Operated District for Sewage Effluent-Irrigation Water Exchange,
W76-02228 9-05 5D

Transformations in Quality of Recharging Effluent in the Santa Cruz River,
W76-02750 9-06 5E

Applications of Finite Element and Computer Graphics Techniques in Aquifer Analysis,
W76-04931 9-10 2F

Conflicts in Water Transfer from Irrigation to Municipal Use in Semiarid Environments,
W76-04932 9-10 6E

1973 Western State Conference on Water Information Dissemination.
W76-05270 9-11 10D

Development of a Mathematical Model of Infiltration which Includes the Effects of Raindrop Impact,
W76-08844 9-17 2G

Groundwater Pollution Monitoring Case Studies,
W76-10661 9-20 5A

Sources and Potential uses of Salvageable Waters in Arizona Urban Regions,
W76-11663 9-22 5D

RKANSAS DEPT. OF COMMERCE, LITTLE OCK. DIV. OF SOIL AND WATER ESOURCES.
Water Quality Investigations in a Small Artificial Reservoir,
W76-12943 9-24 5C

RKANSAS UNIV. AT LITTLE ROCK. DIV OF FE SCIENCES.
A Facility for the Biological Treatment of a Complex Chlorophenolic Waste,
W76-01648 9-04 5D

RKANSAS UNIV., FAYETTEVILLE.
Mineral Quality of Fish Pond Effluent Related to Soil Properties and Crop Production,
W76-03569 9-08 3C

RKANSAS UNIV., FAYETTEVILLE. BUREAU F BUSINESS AND ECONOMIC RESEARCH.
Regional Response Through Port Development: An Economic Case Study on the McClellan-Kerr Arkansas River Project,
W76-02623 9-06 6B

ARKANSAS UNIV., FAYETTEVILLE. DEPT. OF AGRONOMY.
Influence of Water Stress and Growth Regulator Applications on Sugar Composition of Soybean Leaves,
W76-06796 9-13 2I

ARKANSAS UNIV., FAYETTEVILLE. DEPT. OF CHEMICAL ENGINEERING.
Semi-Infinite Solid Model for Prediction of Temperature in Deep Reservoirs and Lakes,
W76-03852 9-08 2H

A Fickian Analysis of Lake Sediment Upsurge,
W76-11692 9-22 2J

ARKANSAS UNIV., FAYETTEVILLE. DEPT. OF GEOLOGY.
Sodium, Potassium, Calcium and Magnesium Content of Northwest Arkansas Rain Water in 1973,
W76-06379 9-13 2B

ARKANSAS UNIV., FAYETTEVILLE. DEPT. OF ZOOLOGY.
Effects of Quality and Quantity of Food on Golden Shiner, Notemigonus Crysoleucas, Production,
W76-01900 9-04 2I

ARKANSAS UNIV., FAYETTEVILLE. WATER RESOURCES RESEARCH CENTER.
Trace Element Composition of Stream Sediments, An Integrating Factor for Water Quality,
W76-00377 9-01 5A

ARKHANGELSKII LESOTEKHNICHESKII INSTITUT (USSR).
Polarographic Determination of Dimethyl Disulfide and Methyl Mercaptan in Aqueous Solutions Containing both (Opredelenie metilmerkaptana i dimetildisul'fida v vodnykh rastvorakh pri ikh sovmestnom pristustvii polyarograficheskim metodom),
W76-00054 9-01 5A

ARMCO ENVIRONMENTAL ENGINEERING, MIDDLETOWN, OHIO.
Limestone Treatment of Rinse Waters from Hydrochloric Acid Pickling of Steel,
W76-01641 9-04 5D

ARMY COLD REGIONS RESEARCH AND ENGINEERING LAB., HANOVER, N. H.
The Chemistry of 700 Years of Precipitation at Dye 3, Greenland,
W76-12181 9-23 5A

ARMY DUGWAY PROVING GROUND, UTAH.
Ammonia Removal from Wastewaters: A Review of the State of the Art,
W76-12853 9-24 5D

ARMY ENGINEER DISTRICT, ALBUQUERQUE, N. MEX.
Special Flood Hazard Information: Arkansas River and Wild Horse Creek, Holly, Colorado.
W76-05262 9-11 4A

Flood Plain Information: Purgatoire River and Tributaries, Vicinity of Trinidad, Colorado.
W76-08381 9-16 4A

Special Flood Hazard Information: Arkansas River and Tributaries, Great Bend, Kansas, to John Martin Dam, Colorado.
W76-08388 9-16 4A

ARMY ENGINEER DISTRICT, ANCHORAGE, ALASKA.
Special Flood Hazard Report: Campbell Creek, Greater Anchorage Area.
W76-01361 9-03 4A

Flood Plain Information: Peters Creek, Birchwood, Alaska.
W76-03454 9-07 4A

Flood Plain Information: Kenai River, Phase II, Kenai Peninsula Borough, Alaska,
W76-11347 9-21 4A

ARMY ENGINEER DISTRICT, CHICAGO, ILL.
Lake Bluff Beach Erosion Control, Illinois (Final Environmental Impact Statement).
W76-00962 9-02 8A

Flood Plain Information: West Branch Dupage River, Kress Creek, and Klein Creek, Dupage County, Illinois.
W76-05257 9-11 4A

Flood Plain Information: Illinois and Michigan Canal, Rock Run Creek, Thorne Creek, Joliet, Illinois.
W76-05645 9-12 4A

Flood Plain Information: East Arm Little Calumet River, Salt Creek-Coffee Creek, Porter County, Indiana.
W76-10152 9-19 4A

Applicability of Unit Stream Power Equation,
W76-12193 9-23 2J

ARMY ENGINEER DISTRICT, DETROIT, MICH.
Flood Control on Saginaw River, Michigan and Tributaries, Flint River at Flint, Swartz and Thread Creeks, Sections C-1 and D, Michigan (Final Environmental Impact Statement).
W76-00941 9-02 8A

ARMY ENGINEER DISTRICT, FORT WORTH, TEX.
Aquatic Plant Control Problems at Sam Rayburn Reservoir,
W76-11152 9-21 5G

ARMY ENGINEER DISTRICT, GALVESTON, TEX.
Flood Plain Information: Colorado River and Baughman Slough, Wharton, Texas.
W76-04706 9-10 4A

Special Flood Hazard Information: Buffalo Bayou, Shepherd Drive to Barker Dam, Houston, Texas.
W76-04721 9-10 4A

Special Flood Hazard Information: White Oak Bayou, Cole Creek, and Vogel Creek, Harris County, Texas.
W76-04722 9-10 4A

Impact Statement for the Aquatic Plant-Control Program-State of Texas,
W76-11146 9-21 6G

ARMY ENGINEER DISTRICT, HUNTINGTON, W. VA.
Alum Creek Lake, Alum Creek, Scioto River Basin, Ohio.
W76-04657 9-10 8A

Flood Plain Information: Big Sandy River, Lawrence County, Kentucky.
W76-10159 9-19 4A

ARMY ENGINEER DISTRICT, HUNTINGTON, W. VA.

Flood Plain Information: Big Sandy River, Boyd County, Kentucky.
W76-11357 9-21 4A

Flood Plain Information: Alum Creek, Vicinity of Columbus, Ohio.
W76-11360 9-21 4A

Flood Hazard Information: Backlick Creek, Violet Township, Fairfield County, Ohio.
W76-12592 9-23 4A

Flood Plain Information: Scioto and Olentangy Rivers, Ohio, Chillicothe Area Summary Report,
W76-13046 9-24 4A

ARMY ENGINEER DISTRICT, JACKSONVILLE, FLA.

Blount Island Development, Jacksonville, Florida (Final Environmental Impact Statement).
W76-00957 9-02 8A

Flood Plain Information: Southeast Volusia County, Florida.
W76-04711 9-10 4A

Special Flood Hazard Information Report: Howell Creek Basin Lakes, Orange County, Florida,
W76-05646 9-12 4A

Flood Plain Information: Coastal Areas, Levy County, Florida.
W76-05647 9-12 4A

Flood Plain Information: North Fork St. Lucie River, St. Lucie County, Florida.
W76-06282 9-13 4A

Flood Plain Information: Coastal Areas, Sarasota County, Florida.
W76-06285 9-13 4A

Flood Plain Information: Coastal Areas, St. Lucie County, Florida.
W76-06354 9-13 4A

Flood Plain Information: Cypress Creek, Orange County, Florida.
W76-06359 9-13 4A

Special Flood Hazard Information Report on Shingle Creek, Osceola and Orange Counties, Florida.
W76-06914 9-14 4A

Flood Plain Information: Coastal Areas, Martin County, Florida.
W76-06915 9-14 4A

Flood Plain Information: Mill Slough, Osceola and Orange Counties, Florida.
W76-07733 9-15 4A

Flood Plain Information: Lake Monroe, Near Sanford, Florida.
W76-11342 9-21 4A

Flood Plain Information: Northeast Volusia County, Florida.
W76-11343 9-21 4A

ARMY ENGINEER DISTRICT, KANSAS CITY, KANS.

Flood Plain Information: Wildcat Creek, Manhattan, Kansas.
W76-03456 9-07 4A

Flood Plain Information, Five Mile Creek, Leavenworth, Kansas.
W76-04705 9-10 6F

Flood Plain Information: Sappa Creek, Oberlin, Kansas.
W76-08821 9-17 4A

ARMY ENGINEER DISTRICT, KANSAS CITY, MO.

Navigation of the Kansas River, Lawrence to the Mouth (Final Environmental Impact Statement).
W76-00960 9-02 8A

Hays, Kansas, Flood Protection Project (Final Environmental Impact Statement).
W76-00973 9-02 8A

Harry S. Truman Dam and Reservoir, Osage River, Missouri.
W76-04654 9-10 8A

Harry S. Truman Dam and Reservoir, Osage River, Missouri. Appendix D.
W76-04655 9-10 8A

Flood Plain Information: North Fork Republican River, Wray, Colorado.
W76-07739 9-15 4A

Harry S. Truman Dam and Reservoir, Osage River, Missouri. Appendix E, F, G, (Environmental Impact Statement.
W76-10827 9-20 4A

ARMY ENGINEER DISTRICT, LOS ANGELES, CALIF.

Flood Plain Information: Aliso Creek, Orange County, California.
W76-01362 9-03 4A

Flood Plain Information: Escondido Creek, San Diego County, California.
W76-03458 9-07 4A

Flood Plain Information: Rillito River and Pantano Wash, Vicinity of Tucson, Arizona.
W76-03459 9-07 4A

Flood Plain Information: San Gorgonio River and Smith Creek, Riverside County, California.
W76-04703 9-10 4A

Flood Plain Information: San Timoteo Creek, Vicinity of Loma Linda, San Bernardino County, California.
W76-06356 9-13 4A

Supercritical Flow at Open-Channel Junctions; Hydraulic Model Investigation,
W76-07455 9-15 8B

Flood Plain Information: San Antonio Creek and Tributaries, Vicinity of OJAI, Ventura County, California.
W76-08380 9-16 4A

Flood Plain Information: Maricopa County, Arizona, Volume I, Indian Bend Wash Report.
W76-08806 9-17 4A

Flood Plain Information: Maricopa County, Arizona, Volume II, Cave Creek Report,
W76-08807 9-17 4A

Flood Plain Information: Maricopa County, Arizona, Volume IV, Wickenburg Report.
W76-08808 9-17 4A

Flood Plain Information: Maricopa County Arizona, Volume V, New River Report.
W76-08809 9-17 4A

Supercritical Flow at Open-Channel Junctions; Hydraulic Model Investigation,
W76-12187 9-23 8B

ARMY ENGINEER DISTRICT, LOUISVILLE, KY.

Relationship of Rational and Unit G Methods in Retention Basin Design.
W76-09732 9-18

Flood Plain Information: Little Eagle C and Tributaries, Marion County, Indiana.
W76-10153 9-19

Flood Plain Information: Crooked Creek Williams Creek, Marion County, Indiana.
W76-10154 9-19

Flood Plain Information: Clear Creek-Mulb Creek, Vicinity of Shelbyville, Kentucky.
W76-10164 9-19

Flood Plain Information: North Fork Kent River and Trace Fork, Vicinity of Haz Kentucky.
W76-10166 9-19

Flood Plain Information: Buck Creek and G sy Creek, Marion County, Indiana.
W76-11346 9-21

Flood Plain Information: Wabash River, M County and Peru, Indiana.
W76-11353 9-21

Flood Plain Information: Pogues Run, Plea Run, and Bean Creek, Marion County, Indi
W76-11354 9-21

Flood Plain Information: Lick Creek and L Buck Creek, Marion County, Indiana.
W76-11355 9-21

ARMY ENGINEER DISTRICT, MEMPHIS, TENN.

Flood Plain Information: Eight Mile Cre Vicinity of Paragould, Arkansas.
W76-01364 9-03

Saint Francis Basin Project, Arkansas and M souri, (Environmental Impact Statement).
W76-01414 9-03

Flood Plain Information: Big Creek, L Creek, Christian Creek and Whiteman's Cre Jonesboro, Arkansas.
W76-03460 9-07

Flood Plain Information: Portage Open I and Main Ditch, Vicinity of Portageville, M souri.
W76-10156 9-19

ARMY ENGINEER DISTRICT, MOBILE, ALA

Permit Application by Radcliff Materials, I Dredging of Dead-Reef Shells, Mobile B Alabama (Final Environmental Impact Sta ment).
W76-00961 9-02

ARMY ENGINEER DISTRICT, NASHVILLE, TENN.

Flood Plain Information: Cumberland Riv Burkesville, Kentucky.
W76-10151 9-19

Flood Plain Information: Lynn Camp and E Fork Lynn Camp Creeks, Corbin, Kentucky
W76-10163 9-19

ARMY ENGINEER DISTRICT, NEW ORLEAN LA.

Bayou Bodcau and Tributaries, Arkansas a Louisiana Associated Water Features, R River, Bayou Bodcau, Flat River, R etc....(Final Environmental Impact Statement
W76-01412 9-03

Flood Plain Information: Big Creek, Nations Creek and Tributaries.
W76-04709 9-10 4A

RMY ENGINEER DISTRICT, NEW YORK.
Maintenance of Tarrytown Harbor, New York, Navigation Project (Final Environmental Impact Statement).
W76-00940 9-02 8A

RMY ENGINEER DISTRICT, NORFOLK, VA.
Flood Plain Information: Pocoshock and Pocosham Creeks, City of Richmond and Chesterfield County, Virginia.
W76-01368 9-03 4A

Flood Plain Information: Proctors Creek, Chesterfield County, Virginia.
W76-01372 9-03 4A

Flood Plain Information: Rivanna River, Albemarle County and Charlottesville, Virginia.
W76-04708 9-10 4A

Flood Plain Information: South Fork Rivanna River, Albemarle County, Virginia.
W76-11361 9-21 4A

RMY ENGINEER DISTRICT, OMAHA, NEBR.
Flood Plain Information: Casper, Wyoming, Volume III, North Platte River.
W76-01369 9-03 4A

Special Flood Hazard Report: To Revise Flood Plain Information, Metropolitan Region, Denver, Colorado; Volume II: Sand, Toll Gate and Lower Cherry Creeks, South Platte River Basin.
W76-01371 9-03 4A

Special Flood Hazard Information Report: Bear Creek, Denver Metropolitan Area.
W76-03461 9-07 4A

Flood Plain Information: Bear Butte Creek, Deadman Gulch, Doland Creek, Cook Canyon Creek, Sturgis, South Dakota.
W76-04707 9-10 4A

Flood Plain Information: Bear Creek and Mt. Vernon Creek, Morrison, Colorado.
W76-04717 9-10 4A

Flood Plain Information: Lower St. Vrain Creek, Volume III, Boulder County, Colorado.
W76-04719 9-10 4A

Flood Plain Information: Ralston Creek, Leyden Creek, Van Bibber Creek, Lena Gulch, Sanderson Gulch, Colorado.
W76-04720 9-10 4A

Flood Plain Information: Upper St. Vrain Creek, Volume IV, Boulder County, Colorado.
W76-06357 9-13 4A

Flood Plain Information: Cache La Poudre River, Colorado, Volume I, Fort Collins, Larimer County.
W76-06918 9-14 4A

Flood Plain Information: Rock River-Poplar Creek, Luverne and Vicinity, Minnesota.
W76-07722 9-15 4A

Flood Plain Information: Big Thompson River, Loveland, Colorado.
W76-07734 9-15 4A

Flood Plain Information: Cache La Poudre River, Colorado, Vol. III. Fort Collins-Greeley-Larimer-Weld County.
W76-11352 9-21 4A

ARMY ENGINEER DISTRICT, PHILADELPHIA, PA.
Flood Plain Information: Pike Creek, New Castle County, Delaware.
W76-10165 9-19 4A

ARMY ENGINEER DISTRICT, PITTSBURGH, PA.
Replacement of Lock and Dam 7 and Lock 8, Monongahela River Pennsylvania (Final Environmental Impact Statement).
W76-00943 9-02 8A

ARMY ENGINEER DISTRICT, PORTLAND, OREG.
Columbia and Lower Willamette Rivers Below Vancouver, Washington and Portland, Oregon, Slaughters Bar Reach (Final Environmental Impact Statement).
W76-00944 9-02 8A

Flood Plain Information: Willamette River, Molalla River, Pudding River, Canby-Barlow-Wilsonville, Oregon.
W76-04713 9-10 4A

Flood Plain Information: Willamette River, Harrisburg, Oregon.
W76-04714 9-10 4A

Flood Plain Information: Willamette River, Chehalem Creek, Newberg, Oregon.
W76-04715 9-10 4A

ARMY ENGINEER DISTRICT, SACRAMENTO, CALIF.
Sacramento River Bank Protection Project, California (Final Environmental Impact Statement).
W76-01409 9-03 8D

Flood Plain Information: Southeast Stream Group, Stockton, California.
W76-03455 9-07 4A

Flood Plain Information: Roaring Fork River and Castle and Hunter Creeks, Aspen, Colorado.
W76-04710 9-10 4A

Flood Plain Information: Sandy Creek, Taft and Ford City, California.
W76-04716 9-10 4A

Flood Plain Information: Colorado and Gunnison River, Grand Junction, Colorado.
W76-04718 9-10 4A

Plan Formulation and Evaluation Studies--Recreation. Vol. II of V. Estimating Initial Reservoir Recreation Use,
W76-05611 9-12 6B

Flood Plain Information: North Yuba and Downie Rivers, Downieville, California.
W76-07721 9-15 4A

Flood Plain Information: Alamo and Ulatis Creeks, Vacaville, California.
W76-08377 9-16 4A

Flood Plain Information: Colorado River and Rifle, Government, Hubbard Gulch Creeks, Rifle, Colorado.
W76-08390 9-16 4A

Flood Plain Information: Northeast Stream Group, Stockton, California.
W76-08810 9-17 4A

Flood Plain Information: Kings River, Sanger, California.
W76-08813 9-17 4A

Flood Plain Information: Dry Creek and Tributaries, Roseville, California.
W76-08814 9-17 4A

Flood Plain Information: Cow Creek, Palo Cedro, California.
W76-08817 9-17 4A

Flood Plain Information: Deer Creek and White River, Earlimart, California,
W76-11350 9-21 4A

Flood Plain Information: Green Valley, Dan Wilson, and Suisun Creeks, Cordelia, California.
W76-11351 9-21 4A

ARMY ENGINEER DISTRICT, SACRAMENTO, CALIF. WATER RESOURCES PLANNING BRANCH.
Environmental Aspects--Sacramento Bank Protection,
W76-00621 9-02 4D

ARMY ENGINEER DISTRICT, SAN FRANCISCO, CALIF.
Flood Plain Information: San Lorenzo River, Boulder Creek-Felton, Santa Cruz County, California.
W76-01373 9-03 4A

Flood Plain Information: Aptos, Trout and Valencia Creeks, City of Aptos, California.
W76-01374 9-03 4A

Effects of Suspended Solids Associated with Dredging Operations on Estuarine Organisms,
W76-03645 9-08 5C

Flood Plain Information: Uvas-Carnadero Creek, Pajaro River to Uvas Reservoir, Santa Clara County, California.
W76-06283 9-13 4A

Flood Plain Information: Van Duzen River, Humbolt County, California.
W76-06355 9-13 4A

Flood Insurance Study: Pleasanton, Alameda County, California, (Preliminary Report),
W76-07726 9-15 4A

Flood Plain Information: Fresno River and Cottonwood, Little Dry, and Root Creeks, Madera, California.
W76-07732 9-15 4A

Flood Plain Information: San Felipe Lake, Unit 2, San Benito, California.
W76-08376 9-16 4A

Flood Plain Information: Eel River--Stafford to Holmes, Humboldt County, California,
W76-08378 9-16 4A

Flood Plain Information: San Felipe Lake, Pacheco Creek, San Benito County, California.
W76-08379 9-16 4A

Flood Plain Information: Guadalupe River, Santa Clara County, California.
W76-08815 9-17 4A

Results of Salinity Tests on the San Francisco Bay-Delta Hydraulic Model,
W76-09978 9-18 2L

Flood Plain Information: Soquel Creek, Santa Cruz County, California.
W76-10157 9-19 4A

Flood Plain Information: Fisher Creek, Santa Clara County, California,
W76-11348 9-21 4A

Flood Plain Information: Alamitos Creek, Including Guadalupe Creek-Arroyo Calero and Santa Teresa Creek, Santa Clara County, California,
W76-11349 9-21 4A

Flood Plain Information: Freshwater Creek, Humboldt County, California.
W76-12593 9-23 4A

ARMY ENGINEER DISTRICT, SAVANNAH, GA.

Special Flood Hazard Information: Dunn Branch, Woodbine, Georgia.
W76-05258 9-11 4A

Flood Plain Information: Little McMullen Creek, Jesup, Georgia.
W76-05648 9-12 4A

Special Flood Hazard Information: Vernonburg, Georgia.
W76-06916 9-14 4A

Special Flood Hazard Information: Raes Creek, Augusta and Richmond CounTy, Georgia,
W76-06920 9-14 4A

Flood Plain Information: Kettle Creek, Waycross and Ware County, Georgia.
W76-07723 9-15 4A

Flood Plain Information: Hurricane Creek, Alma and Bacon County, Georgia.
W76-07724 9-15 4A

Flood Plain Information: Cedar Creek, Athens and Clarke County, Georgia.
W76-07731 9-15 4A

Flood Plain Information: Swift Creek, Macon and Bibb County, Georgia.
W76-11344 9-21 4A

Flood Plain Information: Waycross Drainage Canal, Waycross and Ware County, Georgia.
W76-11345 9-21 4A

Flood Plain Information: Yellow River, Part III, Metropolitan Atlanta, Georgia.
W76-12595 9-23 4A

Flood Plain Information, Lower Buffalo Creek and Its Tributaries, Nahunta and Brantley County, Georgia.
W76-13045 9-24 4A

ARMY ENGINEER DISTRICT, SEATTLE, WASH.

Special Flood Hazard Information: Bear and Evans Creeks, Redmond and Vicinity, Washington.
W76-01363 9-03 4A

Special Flood Hazard Information: Wolf Lodge Creek and Tributaries, Vicinity of Couer D'Alene, Idaho.
W76-01367 9-03 4A

Flood Plain Information: St. Joe and St. Maries Rivers, City of St. Maries and Vicinity, Idaho.
W76-01370 9-03 4A

Special Flood Hazard Information, Pack River, Bonner County, Idaho.
W76-04712 9-10 4A

Environmental Management for the Metropolitan Area Cedar-Green River Basins, Washington, Part II: Urban Drainage.
W76-06573 9-13 6G

ARMY ENGINEER DISTRICT, ST. LOUIS, MO.

Corps Urban Planning in St. Louis-Maline Creek: An Interdisciplinary Effort,
W76-00074 9-01 3D

Flood Plain Information: Kaskaskia River and Dry Fork Creek, Douglas County, Illinois, No. 2.
W76-06921 9-14 4A

Flood Plain Information: Little Crab Orchard Creek and Piles Fork Creek, Carbondale, Illinois.
W76-07725 9-15 4A

Flood Plain Information: Dardenne and Belleau Creeks, St. Charles County, Missouri.
W76-08818 9-17 4A

Flood Plain Information: South Fork Salt River and Davis Creek, Mexico, Missouri.
W76-10158 9-19 4A

Flood Plain Information: Kaskaskia River, Bear Creek, Lake Fork Creek, West Fork Creek and 'A' Creek, Douglas County, Illinois, No. 1.
W76-11341 9-21 4A

ARMY ENGINEER DISTRICT, ST. PAUL, MINN.

Zumbro River Basin, Minnesota (Final Environmental Impact Statement).
W76-01411 9-03 8A

Federal Environmental Impact Statements--A Case Study,
W76-06557 9-13 6G

Flood Plain Information: Minnesota River and Tributaries, Mankato, North Mankato, Le Hillier.
W76-07727 9-15 4A

Flood Plain Information: Mississippi River-Sauk River-Watab River, Vicinity of St. Cloud, Minnesota.
W76-07729 9-15 4A

ARMY ENGINEER DISTRICT, TULSA, OKLA.

Flood Plain Information: Turkey and Joplin Creeks, Joplin, Missouri.
W76-10155 9-19 4A

Special Flood Hazard Information: Arkansas River, Arkansas City, Kansas.
W76-10160 9-19 4A

Special Flood Hazard Information: Labette and Little Labette Creeks, Parsons, Kansas.
W76-10161 9-19 4A

Special Flood Hazard Information: Whiskey and Rock Creeks, Independence, Kansas.
W76-10162 9-19 4A

Flood Plain Information: Dry Turkey and Bull Creeks, McPherson, Kansas.
W76-10167 9-19 4A

Flood Plain Information: Little Arkansas River and Sand Creek, Sedgwick, Kansas.
W76-11356 9-21 4A

Flood Plain Information: Verdigris, Fall and Elk Rivers, Kansas.
W76-13047 9-24 4A

ARMY ENGINEER DISTRICT, TULSA, OKLAHOMA.

Flood Plain Information: Arkansas River, Derby-Mulvane, Kansas.
W76-08822 9-17 4A

ARMY ENGINEER DISTRICT, VICKSBURG, MISS.

Greenville Harbor, Mississippi (Final Environmental Impact Statement).
W76-00971 9-02 8A

Flood Plain Information: Part I - Bayou Bartholomew and Tributaries, City of Pine Bluff, Arkansas.
W76-01365 9-03 4A

Flood Plain Information, Part II-Arkansas River, Caney Bayou and Tributaries, City of Pine Bluff, Arkansas.
W76-04704 9-10 4A

Flood Plain Information: Yalobusha River and Tributaries, Grenada, Mississippi.
W76-07730 9-15 4A

Flood Plain Information: Saline River and Tributaries, Benton, Arkansas.
W76-08389 9-16 4A

ARMY ENGINEER DISTRICT, WALLA WALLA, WASH.

Special Flood Hazard Information: Mill Creek-Gekeler Slough, La Grande, Oregon.
W76-08811 9-17 4A

Flood Plain Information: Umatilla River Tributaries, Mckay, Tutuilla and Wildhorse Creeks, Pendleton, Oregon and Vicinity.
W76-08816 9-17 4A

ARMY ENGINEER DISTRICT, WALTHAM, MASS.

Flood Plain Information: Roaring Brook, Avon, Connecticut.
W76-03457 9-07 4A

Flood Plain Information: Farmington and Connecticut Rivers, Windsor, Connecticut.
W76-05256 9-11 4A

Flood Plain Information: Naugatuck River, Ansonia, Seymour, Beacon Falls, Naugatuck, Waterbury, Watertown and Thomaston, Connecticut.
W76-06919 9-14 4A

Flood Plain Information: Quinebaug River - Cady Brook, Town of Southbridge, Massachusetts.
W76-11358 9-21 4A

Flood Plain Information: Merrimack River, City of Concord, New Hampshire.
W76-11359 9-21 4A

ARMY ENGINEER DIV. NORTH ATLANTIC, NEW YORK.

Northeastern United States Water Supply Study, Interim Report, Critical Choices for Critical Years.
W76-12584 9-23 6D

ARMY ENGINEER DIV. NORTH PACIFIC, BONNEVILLE, OREG. DIV. HYDRAULIC LAB.

Filling and Emptying System for Ice Harbor Lock, Snake River, Washington: Hydraulic Model Investigation,
W76-02536 9-06 8B

Fish Ladders for John Day Dam, Columbia River, Oregon and Washington,
W76-02537 9-06 8I

Modification of Fish Ladders, Bonneville Dam, Columbia River, Oregon and Washington,
W76-02547 9-06 8I

Navigation Chennel Improvement at Bonneville Dam, Columbia River, Oregon and Washington: Hydraulic Model Investigations.
W76-04109 9-09 8B

Spillway for Dorena Dam, Row River, Oregon; Hydraulic Model Investigation.
W76-04110 9-09 8A

Fish Passage Facilities, Bonneville Dam: Columbia River, Oregon and Washington.
W76-04112 9-09 8I

Fish Facilities for McNary Dam, Columbia River, Oregon and Washington; Hydraulic Model Investigation.
W76-04113 9-09 8I

Revised Stilling Basin, Bonneville Dam, Columbia River, Oregon and Washington: Hydraulic Model Investigation.
W76-04116 9-09 8B

Fish Facilities, The Dalles Dam, Columbia River, Oregon and Washington: Hydraulic Model Investigations.
W76-04117 9-09 8I

Spillway Pressure Head Investigation, Bonneville Spillway Dam, Bonneville, Oreg.
W76-04118 9-09 8B

High Velocity Channel, South Fork Coeur D'Alene River at Wallace, Idaho.
W76-04119 9-09 8B

Model Study of the 23-Ft. Outlet Tunnel for Mud Mountain Dam, Enumclaw, Washington.
W76-04120 9-09 8B

Navigation Lock for McNary Dam, Columbia River, Oregon and Washington: Hydraulic Model Investigation.
W76-04121 9-09 8B

Model Study of the Bonneville Navigation Channel, Bonneville, Oregon.
W76-04122 9-09 8B

Model Study of the Willamette Falls Locks, Oregon City, Oregon.
W76-04123 9-09 8B

Side-Channel Spillway and Outlet Works for Lookout Point Dam, Middle Fork Willamette River, Oregon, Hydraulic Model Investigations.
W76-04124 9-09 8B

Spillway and Stilling Basin for the Dalles Dam, Columbia River, Oregon and Washington: Hydraulic Model Investigation.
W76-04125 9-09 8B

Outlet Works and Stilling Basin for Cougar Reservoir, South Fork McKenzie River, Oregon; Hydraulic Model Investigations.
W76-04126 9-09 8B

The Dalles Dam, Columbia River, Oregon and Washington: Hydraulic Model Investigations.
W76-04127 9-09 8B

Spillway for Little Goose Dam, Snake River, Washington, Hydraulic Model Investigation,
W76-07094 9-14 8B

Little Goose Dam, Snake River, Washington, Hydraulic Model Investigation,
W76-07095 9-14 8A

Spillway Gate Modification, Bonneville Dam, Columbia River, Oregon and Washington, Hydraulic Model Investigation,
W76-07792 9-15 8B

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W76-08146 9-16 8C

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W76-04114 9-09 8B

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W76-04115 9-09 8B

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W76-03872 9-08 8B

Ice Harbor Dam, Snake River, Washington: Hydraulic Model Investigation,
W76-03873 9-08 8B

Lower Monumental Dam, Snake River, Washington: Hydraulic Model Investigation,
W76-03874 9-08 8B

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W76-06183 9-13 5C

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W76-05391 9-11 7B

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W76-06709 9-13 5C

Evaluation of Empirical and Analytical Procedures Used for Predicting the Rigid Body Motion of an Earth Penetrator,
W76-07326 9-14 8G

Effects of Anisotropic Versus Isotropic Consolidation in Consolidated-Undrained Triaxial Compression Tests of Cohesive Soils,
W76-07327 9-14 8G

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W76-07454 9-15 8B

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W76-07456 9-15 6F

Shore Effect Model, Atlantic Generating Station; Hydraulic Model Investigation,
W76-07457 9-15 8B

River Point Directory for the Mississippi River-Gulf Coast Inland Waterways System,
W76-07458 9-15 2L

Reliability of Rubble-Mound Breakwater Stability Models,
W76-07459 9-15 8B

Chesapeake Bay Radioactive Tracer Study,
W76-07460 9-15 5B

Outlet Works for Beltzville Dam, Pohopoco Creek, Pennsylvania; Prototype Tests,
W76-07461 9-15 8B

Westport Small-Boat Basin Revision Study; Hydraulic Model Investigation,
W76-07462 9-15 8B

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Effect of Source Orientation and Location in the Aleutian Trench on Tsunami Amplitude Along the Pacific Coast of the Continental United States,
W76-07464 9-15 8B

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W76-07465 9-15 8B

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Expansion of Port Hueneme, California; Hydraulic Model Investigation,
W76-07468 9-15 8B

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W76-07470 9-15 8B

Wave and Current Conditions for Various Modifications of Kewalo Basin, Honolulu, Oahu, Hawaii,
W76-07471 9-15 8B

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W76-07472 9-15 8B

Design Wave Information for the Great Lakes, Report 1, Lake Erie,
W76-07473 9-15 2H

Los Angeles and Long Beach Harbors Model Study; Report 5, Tidal Verification and Base Circulation Tests,
W76-07474 9-15 8B

Design of Jubail Harbor, Saudi Arabia, Royal Saudi Naval Expansion Program; Hydraulic Model Investigation,
W76-07475 9-15 8B

Outlet Works for Taylorsville Lake, Salt River, Kentucky; Hydraulic Model Investigation,
W76-07476 9-15 8B

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W76-07477 9-15 8B

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W76-07478 9-15 8B

Improvement of Core Drill Methods,
W76-08419 9-16 8D

Properties of Expansive Clay Soils; Report 2, A Numerical Procedure for Predicting Heave with Time,
W76-08420 9-16 8D

Modeling Sediment Movement for Masonboro Inlet,
W76-09956 9-18 2L

Masonboro Inlet Fixed-Bed Model Evaluation,
W76-09957 9-18 8B

Mathematical Model Simplifies Design of Sludge Drying Beds,
W76-10035 9-19 5D

Integrated Control of Alligator Weed and Water Hyacinth in Texas.
W76-11145 9-21 5G

Annotated Bibliography on the Geologic, Hydraulic, and Engineering Aspects of Tidal Inlets,
W76-12999 9-24 2L

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The Role of Physical Modeling in Marsh-Estuarine Mineral-Cycling Research,
W76-10276 9-19 5B

Dredged Material Disposal--Effects and Alternatives,
W76-10724 9-20 5E

Overland Flow Treatment of Wastewater - A Feasible Approach,
W76-11235 9-21 5D

ARMY ENGINEER WATERWAYS EXPERIMENT STATION, VICKSBURG, MISS. HYDRAULICS LAB.

Some Hard Lessons in Numerical Hydraulics,
W76-09952 9-18 8B

Combined Use of Physical and Mathematical Models for Analysis of Reservoir Water Quality,
W76-10439 9-19 5B

Overview of Physical Estuary Practice,
W76-10444 9-19 2L

Los Angeles and Long Beach Harbors Model Study; Report 1, Prototype Data Acquisition and Observations,
W76-11751 9-22 8B

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W76-02043 9-05 7B

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W76-02946 9-06 5B

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W76-09972 9-18 2E

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Stabilization of Soil and Aggregate Materials for Forward Area Operations,
W76-02681 9-06 8D

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Gamma Irradiation for Sewage Treatment at US Army Facilities,
W76-09525 9-18 5D

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W76-11395 9-21

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W76-04606 9-10 5D

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W76-04607 9-10 5D

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W76-07433 9-14 3A

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Wastewater Treatment,
W76-02606 9-06

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Effect of Temperature and Sludge Loading on BOD5 Removal and Sludge Settleability in Activated Sludge Systems Treating Bleached Kraft Effluents,
W76-05105 9-11 5D

Rotating Disk Looks Promising for Plant Wastes,
W76-05337 9-11 5D

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W76-05710 9-12 5C

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W76-08458 9-16 5A

Foam Detoxification of Bleached Kraft Effluent,
W76-08460 9-16 5D

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W76-08461 9-16 5D

Acute Toxicity to Juvenile Rainbow Trout (Salmo Gairdneri) of Naturally Occurring Insect Juvenile Hormone Analogues,
W76-09282 9-17 5C

Design Considerations of Foam Separation Process for Detoxification of Kraft Effluents,
W76-09292 9-17 5D

Effects of Color and Toxic Constituents of Bleached Kraft Mill Effluent on Algal Growth,
W76-09300 9-17 5C

Foam Separation for Detoxification of Bleached Kraft Mill Effluents,
W76-10855 9-20 5D

Detoxification of Bleached Kraft Mill Effluents,
W76-10867 9-20 5D

Toxicity: Research and Regulation,
W76-11374 9-21 5C

Arsenic in Marine Organisms from West Greenland,
W76-11962 9-22 5C

.C. RESEARCH, VANCOUVER.
Ultimate Disposal of Biological Sludges -- A Novel Concept,
W76-12481 9-23 5E

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Foam Separation - A Technique for Water Pollution Abatement,
W76-05115 9-11 5D

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The Control of Chloride Ions in the MgO Recovery System,
W76-08457 9-16 5D

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Novel Polymer Membranes for Reverse Osmosis,
W76-13153 9-24 5F

BACK BAY NATIONAL WILDLIFE REFUGE, VIRGINIA BEACH, VA.
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W76-13105 9-24 6E

BADGER CO., INC., CAMBRIDGE, MASS.
The Badger Company Conceptual Design of a 50 MGD Desalination Plant.
W76-00160 9-01 3A

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Operation of Pilot Plant LTV Evaporator at Wrightsville Beach, North Carolina.
W76-06049 9-12 3A

Conversion of Desalination Plant Brines to Solids,
W76-06248 9-13 3A

BADISCHE ANILIN UND SODA-FABRIK A. G., LUDWIGSHAFEN AM. RHEIN (WEST GERMANY). (ASSIGNEE).
Purification of Waste Water from Styrene Bead Polymer Production,
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W76-09793 9-18 2G

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Planning a Must for Groundwater Development,
W76-00422 9-01 4B

BAGHDAD UNIV. (IRAQ). COLL. OF SCIENCES.
Effect of Chronic Oil Pollution on a Polychaete,
W76-11715 9-22 5C

BAIRD-ATOMIC, INC., BEDFORD, MASS.
Identification, Estimation and Monitoring of Petroleum in Marine Waters by Luminescence Methods,
W76-10395 9-19 5B

BALDWIN-LIMA-HAMILTON CORP., PHILADELPHIA, PA.
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W76-00167 9-01 3A

BALFOUR (D.) AND SONS, LONDON (ENGLAND).
Objectives and Costs of Advanced Treatment Techniques for Sewage,
W76-09449 9-18 5D

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Water Pollution Control in the Italian Straw Paper Industry,
W76-03079 9-07 5D

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Automatic System Purifies Pre-Finish Effluent at 45 GPM,
W76-01679 9-04 5D

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Effect of Running Water on the Predatory Efficiency of the Larvivorous Fish Cambusia Affinis,
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Effect of Water Temperature on the Predatory Efficiency of Gambusia Affinis,
W76-12709 9-24 5C

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Views on River Basin Development in Thailand,
W76-05520 9-12 4A

BANGLADESH AGRICULTURAL UNIV., MYMENSINGH. FACULTY OF FISHERIES.
An Experiment on the Feeding of Fry of Catfish Heteropneustes Fossilis,
W76-08575 9-16 2I

BANKS (HARVEY O.), INC., BELMONT, CALIF.
Legal Requirements for Monitoring Groundwater Quality,
W76-10656 9-20 5G

BANQUE POUR L'EXPANSION INDUSTRIELLE 'BANEXI', PARIS (FRANCE). (ASSIGNEE)
Compositions for the Removal of Hydrocarbon and Industrial Waste by Biological Degradation,
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Wet Oxidation Process for Waste Material,
W76-03518 9-08 5D

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Detailed Economic Models for Industrial and Other Activities,
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Chemical Waste Land Disposal Facility Demonstration Grant Application.
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BARRINGER RESEARCH LTD., REXDALE (ONTARIO). (ASSIGNEE).
Remote Sensing of Marine Hydrocarbon Seeps,
W76-12411 9-23 5A

BARTLESVILLE ENERGY RESEARCH CENTER, OKLA.
Chemical Applications in Oil and Gas Well-Drilling and Completion Operations,
W76-08903 9-17 8G

BASF WYANDOTTE CORP., DETROIT, MICH.
Low Sulfide Unhairing and its Advantages for the Tanner,
W76-04292 9-09 5D

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A Simple Agar Plate Method, Using Micro-Algae for Herbicide Bio-Assay or Detection,
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Polystyrene Spherules in the Severn Estuary-A Progress Report,
W76-11819 9-22 5B

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Removal of Chromium from Plating Rinse Water Using Activated Carbon,
W76-01867 9-04 5D

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W76-02428 9-05 6G

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Reclamation of Metal Values From Metal-Finishing Waste Treatment Sludges,
W76-00370 9-01 5D

Interim Report on Development of a Hand Operated Water Pump for Developing Countries,
W76-00420 9-01 8C

Review of Landspreading of Liquid Municipal Sewage Sludge,
W76-02658 9-06 5D

Environmental Assessment of Future Disposal Methods for Plastics in Municipal Solid Waste,
W76-02659 9-06 5E

Interdependence of Air, Water, and Soil Pollution Control Strategies in a Power Plant and a Kraft Mill,
W76-03297 9-07 5D

Field Research and Testing of a Water Hand Pump for use in Developing Countries,
W76-10086 9-19 8G

Quantitative Determination of Hydrocarbons in Marine Organisms,
W76-10404 9-19 5A

Survey Study of Techniques to Prevent or Reduce Discharges of Hazardous Chemicals,
W76-11931 9-22 5G

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Resource Partitioning in Leaf-Litter Faunas from Hardwood and Hardwood-Converted-To-Pine Forests,
W76-10308 9-19 5B

BATTELLE-INSTITUT E.V., FRANKFURT AM MAIN (WEST GERMANY).
Use of Sewage Sludge as Fodder,
W76-09554 9-18 5D

BATTELLE MEMORIAL INST., COLUMBUS, OHIO.
The Use of Linear Programming Techniques for Estimating the Benefits from Increased Accuracy of Water Supply Systems,
W76-13169 9-24 6A

BATTELLE MEMORIAL INST., RICHLAND, WASH.
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W76-09971 9-18 8B

BATTELLE MEMORIAL INST., RICHLAND, WASH. PACIFIC NORTHWEST LABS.
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Ammonia Removal from Agricultural Runoff and Secondary Effluents by Selected Ion Exchange.
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W76-12727 9-24 5C

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Resistance of a Northwestern Crayfish, Pacifastacus Leniusculus (Dana) to Elevated Temperatures,
W76-01907 9-04 5C

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The Role of Dispersion in Fuel Oil Bioassay,
W76-11100 9-20 5C

BATTELLE PACIFIC NORTHWEST LABS., RICHLAND, WASH.
Some Methodology for Appraising Contaminants in Aquatic Systems,
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Preliminary Studies on the Effect of Fatigue on Thermal Tolerance of Rainbow Trout,
W76-03475 9-07 5C

Measured Chromium Distributions Resulting from Cooling-Tower Drift,
W76-04828 9-10 5B

A Technique for Environmental Decision Making Using Quantified Social and Aesthetic Values,
W76-05825 9-12 5G

The Ecological Behavior of Plutonium and Americium in a Freshwater Ecosystem: Phase II, Implications of Differences in Transuranic Isotopic Ratios,
W76-07480 9-15 5C

Aquatic Physiology of Thermal and Chemical Discharges,
W76-08880 9-17 5C

Effects of Thermal and Chemical Discharges from Nuclear Power Plants,
W76-10051 9-19 5C

Studies of Columbia River Water Quality Development of Mathematical Models for Sediment and Radionuclide Transport Analysis,
W76-12702 9-24 5B

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An Analytical Search for the Stochastic-Dominating Process in the Drift-Deposition Problem,
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Rain Scavenging of SO2 and Sulfate from Power Plant Plumes,
W76-02712 9-06 5A

BATTELLE-PACIFIC NORTHWEST LABS., RICHLAND, WASH. ECOSYSTEMS DEPT.
Combined Effects of Mercury and Temperature on the Mortality of Rainbow Trout,
W76-02005 9-05 5C

Effects of Acute Cold Shock on the Channel Catfish,
W76-03468 9-07 5C

Resistance of Crayfish to Acute Thermal Shock: Preliminary Studies,
W76-03471 9-07 5C

A Comparative Evaluation of the Weiss Saturometer,
W76-03774 9-08 5A

Suspensions of Crude Oils in Sea Water: Rapid Methods of Characterizing Light Hydrocarbon Solutes,
W76-10393 9-19 5A

Food and Growth Parameters of Juvenile Chinook Salmon, Oncorhynchus Tshawytscha. in Central Columbia River,
W76-11411 9-21 2I

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W76-12722 9-24 5C

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Steady-State Method of Measuring Unsaturated Hydraulic Conductivity,
W76-09924 9-18 2G

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Stabilization of Municipal Sewage Sludge by High Lime Dose,
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Beneficial Recycling of Waste,
W76-00182 9-01 5D

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W76-09551 9-18 5D

AYLOR COLL. OF MEDICINE, HOUSTON, EX. (ASSIGNEE).
Sterilization of Holding Tanks and Toilet Bowls by Quaternary Compounds,
W76-08201 9-16 5D

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Fate of Wastewater Bacteria and Virsuses in Soil,
W76-03251 9-07 5B

Viruses in Water: The Problem, Some Solutions,
W76-07006 9-14 5A

Virus Removal and Inactivation by Physical-Chemical Waste Treatment,
W76-07999 9-15 5D

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The Fate of Turpentine in Aerated Lagoons,
W76-05109 9-11 5D

A Clean Piece of Paper,
W76-10842 9-20 5D

EAS DESIGNS ORGANIZATION, NANGAL NDIA).
Construction Planning of a Hydro Power Station,
W76-09616 9-18 8C

EAUFORT ENGINEERING AND EVELOPMENT LTD., BURLINGTON NTARIO).
Municipal Imposts and Levies for Ontario Water Utilities,
W76-01606 9-04 6C

EAVIN CO., BALTIMORE, MD.
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W76-01795 9-04 5D

ECHTAL POWER CORP., LOS ANGELES, ALIF.
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W76-00759 9-02 3E

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W76-03157 9-07 3A

Some Theoretical Considerations in Reservoir Design,
W76-08518 9-16 8B

ECHTEL INC., GAITHERSBURG, MD.
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W76-07147 9-14 5D

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W76-09772 9-18 5D

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W76-10967 9-20 3A

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W76-04544 9-10 5D

BECK (R. W.) AND ASSOCIATES, SEATTLE, WASH.
Multipurpose Computer for the Honolulu Board of Water Supply,
W76-12589 9-23 4B

BECKMAN INSTRUMENTS, INC., FULLERTON, CALIF. (ASSIGNEE).
Determination of Sodium Form Water Softener Breakthrough,
W76-13161 9-24 5F

BEDFORD INST., DARTMOUTH (NOVA SCOTIA). ATLANTIC OCEANOGRAPHIC LAB.
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W76-06024 9-12 5A

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W76-03784 9-08 5C

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W76-01259 9-03 2L

Occurrence of Foraminifera, Molluscs and Ostracods Adjacent to the Industrialized Shoreline of Canso Strait, Nova Scotia,
W76-07621 9-15 5C

Degradation of Bunker C Oil under Different Coastal Environments of Chedabucto Bay, Nova Scotia,
W76-09394 9-17 5B

Baroclinic Instability in the Denmark Strait Overflow,
W76-10693 9-20 2L

Effectiveness and Toxicity of an Oil Dispersant in Large Outdoor Salt Water Tanks,
W76-11824 9-22 5C

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W76-05147 9-11 5A

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W76-11096 9-20 5B

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W76-12448 9-23 2C

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Sedimentation of Organic Matter in St. Margaret's Bay, Nova Scotia,
W76-01311 9-03 2L

Coastal Circulation and Physical Oceanography of the Scotian Shelf and the Gulf of Maine,
W76-08125 9-16 2L

Effects of Low Concentrations of Oil Accommodated in Sea Water on the Growth of Unialgal Marine Phytoplankton Cultures,
W76-08440 9-16 5C

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W76-10388 9-19 5A

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W76-00329 9-01 5C

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W76-09938 9-18 5C

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W76-12565 9-23 6A

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W76-12508 9-23 5D

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W76-12554 9-23 4A

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W76-00889 9-02 8A

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W76-02272 9-05 5G

BENDIX AEROSPACE SYSTEMS DIV., ANN ARBOR, MICH.
A Technique for Correcting ERTS Data for Solar and Atmospheric Effects,
W76-02059 9-05 7C

Environmental Monitoring from Spacecraft Data,
W76-08532 9-16 5A

Computer Mapping of Turbidity and Circulation Patterns in Saginaw Bay, Michigan from Landsat Data,
W76-08746 9-16 5B

BENDIX CORP., DAVENPORT, IOWA. INSTRUMENTS AND LIFE SUPPORT DIV.
A Frazil Ice Concentration Measuring System Using a Laser Doppler Velocimeter,
W76-01850 9-04 2C

BENNETT POLLUTION CONTROLS, LTD., VANCOUVER (BRITISH COLUMBIA). (ASSIGNEE).
Oil Containment Boom,
W76-04602 9-10 5G

BERGEN UNIV. (NORWAY). BIOLOGICAL STATION.
Phosphate, Silicate, Nitrate, and Ammonia in Lindaspollene, A Norwegian Land-Locked Fjord,
W76-07098 9-14 5B

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Petroleum Residues in the Sargasso Sea and on Bermuda Beaches,
W76-09315 9-17 5C

Hydrocarbon Content and Chlorophyll Correlation in the Waters Between Nova Scotia and the Gulf Stream,
W76-10389 9-19 5B

Determination of Aromatic and Total Hydrocarbon Content in Submicrogram and Microgram Quantities in Aqueous Systems by Means of High Performance Liquid Chromatography,
W76-10391 9-19 5A

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W76-00389 9-01 8C

BETHLEHEM STEEL CORP., PA.
Case History on Acid Mine Drainage Control,
W76-01650 9-04 5G

BETZ ENTEC, INC., TREVOSE, PA.
Water Treatment--Technique for Energy Conservation,
W76-05438 9-11 5F

BETZ LAB., INC., TREVOSE, PA.
Reuse Sour Water Stripper Bottoms,
W76-02582 9-06 5D

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Polymers Solve Waste Water Problems,
W76-07527 9-15 5D

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Synergistic Compositions Containing 2,2-Dibromo-3-Nitrilopropionamide and 3,3,4,4-Tetrachlorotetrahydro-Thiopene-1,1-Dioxide and Their Use,
W76-05531 9-12 5F

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W76-10964 9-20 5D

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W76-09500 9-18 5A

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Scope for Utilizing Gamma Radiation for Microbiological Control of Sewage Waste-Water in India,
W76-09526 9-18 5D

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Importance of Water Quality in the Use of Large Volumes of Water for Condenser Cooling in Power Stations,
W76-08070 9-15 5B

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Seasonal Feature of Thermal Abatement of Shoreline Discharges at Nuclear Sites,
W76-08862 9-17 5G

BHABHA ATOMIC RESEARCH CENTRE, BOMBAY (INDIA). HEALTH PHYSICS DIV.
Plutonium in the Aquatic Environment, Its Behaviour, Distribution and Significance,
W76-08599 9-16 5C

Determination of Plutonium in the Marine Environment,
W76-08615 9-16 5A

Radioruthenium in Coastal Waters,
W76-08619 9-16 5A

Impact of Thermal and Radioactive Effluents on a Tropical Nearshore Ecosystem,
W76-09492 9-18 5C

BHABHA ATOMIC RESEARCH CENTRE, TROMBAY, BOMBAY (INDIA). AIR MONITORING SECTION.
Monsoonal Deposition of Sea Salt and Air Pollutants Over Bombay,
W76-10932 9-20 5B

BHARAT HEAVY ELECTRICALS LTD., HARDWAR (INDIA).
Operation of Hydrogenerator as Synchronous Condensor,
W76-09637 9-18 8C

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W76-06763 9-13 5C

BIO-GAS OF COLORADO, INC., DENVER. (ASSIGNEE).
Method and Apparatus for the Anaerobic Digestion of Decomposable Organic Materials,
W76-05981 9-12 5D

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W76-09431 9-18 5D

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W76-04918 9-10 5C

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W76-03768 9-08 5C

Some Reflections on the Biodegradation of Mineral Oils in the Marine Environment,
W76-11016 9-20 5B

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W76-04564 9-10 5C

Content of Heterotrophic Microorganisms in Water of Lake Baikal, (In Russian),
W76-07302 9-14 5C

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W76-09791 9-18 5C

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W76-04574 9-10 5A

BIOSPHERICS INC., ROCKVILLE, MD.
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W76-00696 9-02 5B

Methodology for Application of Adenosine Triphosphate Determination in Wastewater Treatment,
W76-03232 9-07 5D

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Lower Speed Aerators Cut Energy Use,
W76-01552 9-04 5D

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W76-03131 9-07 2G

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W76-03470 9-07 5C

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W76-00413 9-01 2F

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W76-00419 9-01 4B

Interpretation of in Situ Permeability Tests on Anisotropic Deposits,
W76-12455 9-23 2G

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The Effect of Finite Channel Width on Concentration Polarisation Reverse Osmosis Under Laminar Flow Conditions,
W76-00642 9-02 3A

IRMINGHAM UNIV. (ENGLAND) DEPT. OF IVIL ENGINEERING.
Water Supplies for Low-Income Communities in Developing Countries,
W76-01004 9-03 5G

Water Supplies for Low-Income Communities in Developing Countries,
W76-03114 9-07 5F

Unsteady Unconfined Flow into a Surface Reservoir,
W76-03744 9-08 2F

The Alternating Direction Explicit Method for Analyzing Groundwater Flow,
W76-04691 9-10 2F

Pumping-Test Analysis Using a Discrete Time-Discrete Space Numerical Method,
W76-05913 9-12 4B

Control of a River System with Two Storage Reservoirs,
W76-06422 9-13 4A

Rapid Recharge in a Limestone Aquifer,
W76-06685 9-13 2F

Pumping Test Analysis When Parameters Vary with Depth,
W76-06687 9-13 4B

Pilot-Scale Wastewater Treatment Studies,
W76-07045 9-14 5D

Improved Image-Well Technique for Aquifer Analysis,
W76-08517 9-16 4B

Hydrodynamics of Groundwater Flow in a Fractured Formation,
W76-12207 9-23 2F

Analysis of Aquifer-Aquitard Flow,
W76-12836 9-24 2F

BIRMINGHAM UNIV. (ENGLAND). DEPT. OF GEOGRAPHY.
Limestone Drainage Systems,
W76-03747 9-08 2F

BIRMINGHAM UNIV. (ENGLAND). DEPT. OF GEOLOGICAL SCIENCES.
Economic Aspects of Geoelectrical Prospecting in Sandstone Aquifers,
W76-03276 9-07 4B

A Surface Resistivity Investigation Over an Area of the English Chalk Aquifer,
W76-04690 9-10 2F

BIRMINGHAM UNIV. (ENGLAND). DEPT. OF MATHEMATICAL STATISTICS.
A Reconsideration of the Fiering Two-Station Model,
W76-08519 9-16 4A

BIRMINGHAM UNIV. (ENGLAND). DEPT. OF PHYSICS.
The Electrical Properties of Snow and Ice,
W76-05373 9-11 2C

The Dielectric Properties of Antarctic Ice,
W76-05374 9-11 2C

Internal Reflections in Polar Ice Sheets,
W76-05681 9-12 2C

BIRMINGTON UNIV. (ENGLAND). DEPT. OF CIVIL ENGINEERING.
Aquifer Analysis of the Lincolnshire Limestone Using Mathematical Models,
W76-04675 9-10 2F

BITTINGER (M. W.) AND ASSOCIATES, INC., FORT COLLINS, COLO.
Generalized Criteria for Verification of Water Developed Through Weather Modification,
W76-01519 9-04 3B

BLACK AND VEATCH, DENVER, COLO.
Application of a Water Quality Model to the Denver Metropolitan Area,
W76-10438 9-19 5B

BLACK AND VEATCH, KANSAS CITY, MO.
Tunneling Makes Riverside Interceptor Feasible,
W76-00778 9-02 5D

Demand-Rate Economics,
W76-01607 9-04 6C

Trends in Water Rates,
W76-01612 9-04 6C

Direct Filtration of Lake Superior Water for Asbestiform Fiber Removal.
W76-02766 9-06 5F

Direct Filtration of Lake Superior Water for Asbestiform Fiber Removal, Appendix A.
W76-02767 9-06 5F

Direct Filtration of Lake Superior Water for Asbestiform Fiber Removal, Appendixes B and C.
W76-02768 9-06 5F

Direct Filtration of Lake Superior Water for Asbestiform Fiber Removal, Appendix D.
W76-02769 9-06 5F

Water Quality Management for Metropolitan Kansas City,
W76-06323 9-13 5G

Lagoons and Oxidation Ponds, (Literature Review),
W76-12671 9-23 5D

BLACK, CROW AND EIDSNESS, GAINESVILLE, FLA.
Rates Must Be Fair,
W76-06629 9-13 6C

BLACK, CROW AND EIDSNESS, INC., ATLANTA, GA.; AND JORDAN, JONES AND GOULDING, INC. ATLANTA, GA.
Water Pollution Abatement Technology: Capabilities and Costs, Urban Runoff.
W76-08222 9-16 5G

BLACK, CROW, AND EIDSNESS, INC., CLEARWATER, FLA.
Recycling Allows Zero Waste Water Discharge,
W76-03926 9-08 5E

The Symbiotic Approach to Water Reuse in St. Petersburg, Florida,
W76-11656 9-22 5D

BLACK, CROW AND EIDSNESS, INC., GAINESVILLE, FLA.
Effects of Detergent Formulation on Wastewater Characteristics and Treatment,
W76-03329 9-07 5D

Urban Water Management and Coastal Wetland Protection in Collier County, Florida,
W76-07150 9-14 3D

Water Treatment Untouched by Human Hands - Almost,
W76-08266 9-16 5F

Preliminary Hydrologic Design of Small Flood Detention Reservoirs,
W76-08731 9-16 8B

BLUME (JOHN A.) AND ASSOCIATES RESEARCH DIV., SAN FRANCISCO, CALIF.
Engineering and Ecological Evaluation of Artificial-Island Design, Rincon Island, Punta Gorda, California,
W76-09903 9-18 2L

BOARD OF ENGINEERS FOR RIVERS AND HARBORS, WASHINGTON, D.C.
Evaluating Costs for Port Distribution Systems,
W76-02716 9-06 4A

BOEING AEROSPACE CO., SEATTLE, WASH. ENVIRONMENTAL PROTECTION SYSTEMS.
Industrial and Municipal Sludge Dewatering, The Boeing 'Best' System,
W76-03816 9-08 5D

BOGAZICI UNIV., ISTANBUL (TURKEY), DEPT. OF MATHEMATICS.
Point Source Dispersion in Turbulent Open Channels,
W76-00014 9-01 8B

BONN UNIV. (WEST GERMANY). INST. FUER DAS RECHT DER WASSERWIRTSCHFT.
Water Quality Law in Federal Republic of Germany,
W76-12531 9-23 5G

BORDEAUX-1 UNIV., TALENCE (FRANCE).
Hydrothermal Convection in Saturated Porous Media,
W76-06415 9-13 2F

BORDEAUX UNIV. (FRANCE).
Experimental Study of the Purification of Effluents from the Manufacture of Bleached Bisulfite Pulp by Aeration Lagooning (Etude experimentale de l'epuration par lagunage aere de liqueurs bisulfitiques de pate de cellulose blanchie),
W76-05718 9-12 5D

BORDEN CHEMICAL CO., NEW WESTMINSTER (BRITISH COLUMBIA).
Potentiometric Titration Behavior of Sodium Sulfide, Methyl Mercaptan, Dimethyl Sulfide, Dimethyl Disulfide and Polysulfides in Mixed Alkaline Solutions and Sulfate Pulping Black Liquors,
W76-01670 9-04 5A

BOSSIER CITY UTILITIES DEPT., LA.
Town Maintains Sewers Despite 'Sugar Sand',
W76-10687 9-20 5D

BOSTOCK, HILL AND RIGBY. BIRMINGHAM, (ENGLAND).
A Feasibility Study of the Control of Pollution from Industrial Waste Waters Discharged into the Lagoon of Venice,
W76-10679 9-20 5D

BOSTON COLL., CHESTNUT HILL, MASS.
The Role of Pollutee Taxes in Externality Problems,
W76-06226 9-13 5G

BOSTON COLL., CHESTNUT HILL, MASS. DEPT. OF CHEMISTRY.
Studies on Ionic Entropies of Transport,
W76-04668 9-10 1B

BOSTON METROPOLITAN DISTRICT COMMISSION, MASS.
Fluoridation Analysis: The Boston Story,
W76-00233 9-01 5F

BOSTON UNIV., MASS. DEPT. OF BIOLOGY.
The Influence of Activity Level on Bradycardia in Trout (Salmo Gairdneri) During Hypoxia,
W76-03031 9-07 5C

BOVAY ENGINEERS, INC., SPOKANE, WASH.
Industrial Cost Recovery and User Charge Assessments,
W76-05813 9-12 5G

BOVET (ERIC D.) ALEXANDRIA, VA.
Evaluation of Quality Parameters in Water Resource Planning: A State-of-the-Art Survey of the Economics of Water Quality,
W76-05818 9-12 5G

BOWDOIN COLL., BRUNSWICK, MAINE. DEPT. OF CHEMISTRY.
Long Term Weathering Characteristics of Iranian Crude Oil: The Wreck of the 'Northern Gulf',
W76-10405 9-19 5B

BOWDOIN COLL. BRUNSWICK, MAINE. DEPT. OF ECONOMICS.
A Survey of the Techniques for Measuring the Benefits of Water Quality Improvement,
W76-11155 9-21 5G

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Calculated Yield of Sewage Lagoon Biomass, A Plan for Production, and some of the Problems Inherent in Using Biomass or Lagoon Water for Production of Food and Fiber,
W76-03549 9-08 5D

BOWLING GREEN STATE UNIV., OHIO. DEPT. OF GEOLOGY.
Mercury Occurrence in Sediment Cores from Western Lake Erie,
W76-06137 9-12 5B

Occurrence of As, Cd, Co, Cr, Cu, Fe, Hg, Ni, Sb, and Zn in Lake Erie Sediments,
W76-11293 9-21 5B

Pollutant Mercury and Sedimentation in the Western Basin of Lake Erie,
W76-11294 9-21 5B

BOYLE ENGINEERING, VENTURA, CALIF.
Regional Plant Treats Septic Wastes,
W76-05771 9-12 5D

BRADFORD UNIV. (ENGLAND). DEPT. OF CIVIL ENGINEERING.
The Terassperc-A Proposed Si Unit for the Frequency of Recurrence of a Hydrological Event,
W76-00297 9-01 7A

BRADFORD UNIVERSITY, YORKS, UNITED KINGDOM, SCHOOLS OF CHEMICAL ENGINEERING.
Continuous Ion Exchange in Fluidized Beds,
W76-04212 9-09 5D

BRAUN (C. F.) AND CO., ALHAMBRA, CALIF.
C. F. Braun and Company Conceptual Design of a 50 MGD Desalination Plant.
W76-00163 9-01 3A

C. F. Braun and Company Conceptual Design 150-MGD LTV Desalting Plant.
W76-00173 9-01 3A

BRENDER'S LEGHORNS, FERNDALE, N.Y.
Lagoons--Sink or Swim,
W76-00918 9-02 5D

BRIDGEPORT UNIV., CONN. DEPT. OF BIOLOGY.
Blood Oxygen Capacities of Eels Acclimated to Fresh-, Brackish-, and Salt-Water Environments,
W76-03015 9-07 5C

BRIDGESTONE TIRE CO. LTD., TOKYO (JAPAN). (ASSIGNEE)
Belt Device for Collecting Floating Matter from Water Surface,
W76-01722 9-04 5G

Oil Fence Having Directional Control Device,
W76-07441 9-14 5G

BRIGHAM YOUNG UNIV., PROVO, UTAH.
Soil Salinity Distribution in Sprinkler and Subsurface-Irrigated Citrus,
W76-01074 9-03 4B

Aquatic Macroinvertebrate Water Quality, and Fish Population Characterization of the White River, Uintah County, Utah,
W76-10821 9-20 6G

BRIGHAM YOUNG UNIV., PROVO, UTAH. CENTER FOR HEALTH AND ENVIRONMENTAL STUDIES.
Aquatic Survey of Selected Streams with Critical Habitats on National Resources Lands Affected by Livestock and Recreation,
W76-04042 9-09 4C

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Some Problems in Measuring the Social Consequences of Large-Scale Development Projects,
W76-05366 9-11 6B

BRIGHAM YOUNG UNIV., PROVO, UTAH. DEPT. OF ZOOLOGY.
Computerized Reduction of Meteorologic Measurements from Irrigated and Nonirrigated Plots in Central Utah,
W76-02500 9-05 7C

The Effect of the Goshen Bay Dike on the Benthos of Utah Lake in Relation to Water Quality,
W76-04013 9-09 5C

The Reproductive Biology of the Leech Helobdella Stagnalis (L.) in Utah Lake, Utah,
W76-11826 9-22 2H

BRISBANE CITY COUNCIL (AUSTRALIA). DEPT. OF WATER SUPPLY AND SEWERAGE.
An Engineering Emergency: The 1974 Floods,
W76-05059 9-11 4A

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Cadmium Levels and Carbohydrate Metabolism in Limpets,
W76-11963 9-22 5C

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Environment and Social Class, EESG Bibliography Series 15.
W76-12962 9-24 6B

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Some General Precipitation-River Flow Relationships in England and Wales,
W76-07088 9-14 2A

Water Tracing in Tropical Regions, The Use of Fluorometric Techniques in Jamaica,
W76-10701 9-20 2E

Peak Flow Inter-Arrival Times,
W76-11859 9-22 2A

BRISTOL UNIV. (ENGLAND). DEPT. OF ZOOLOGY).
Small-Scale Cultivation of Cells and Tissue from Gobid Teleosts,
W76-03769 9-08 5C

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Theory of Radio from Glacier Beds,
W76-05376 9-11 2C

The Use of Erts Photographs to Measure the Movement and Deformation of Sea Ice,
W76-05399 9-11 7B

The Movement of Melting Ice over Rough Surfaces,
W76-05671 9-12 2C

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Studies on the Swimming Musculature of the Rainbow Trout, II. Muscle Metabolism During Severe Hypoxia,
W76-03042 9-07 5C

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Heavy Metals in Organisms of the Atlantic Coast of S.W. Spain and Portugal,
W76-11961 9-22 5B

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Use of a Mobile Laboratory for Pollution Detection,
W76-00611 9-02 5A

BRITISH COLUMBIA DEPT. OF HEALTH, VANCOUVER.
Why Chlorinate,
W76-00261 9-01 5F

BRITISH COLUMBIA UNIV., VANCOUVER.
Ion Flotation for Color Removal from Kraft Mill Effluent,
W76-00041 9-01 5D

BRITISH COLUMBIA UNIV., VANCOUVER. DEPT. OF AGRICULTURAL ENGINEERING.
Biological Treatment of Egg Processing Wastewater,
W76-04753 9-10 5D

BRITISH COLUMBIA UNIV., VANCOUVER. DEPT. OF CIVIL ENGINEERING.
Long-Term Operation of Storage Hydro Projects,
W76-06434 9-13 4A

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Water Management in Ontario--An Economic Evaluation of Public Policy,
W76-01969 9-04 6B

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Orientation of Soil Stripes Caused by Needle Ice,
W76-06187 9-13 2C

RITISH COLUMBIA UNIV., VANCOUVER. EPT. OF GEOLOGICAL SCIENCES.
Selection of Threshold Values in Geochemical Data Using Probability Graphs,
W76-02892 9-06 2K

A Stochastic-Conceptual Analysis of One-Dimensional Groundwater Flow in Nonuniform Homogeneous Media,
W76-03128 9-07 2F

RITISH COLUMBIA UNIV., VANCOUVER. EPT. OF GEOLOGY.
The Hydrology of Glaciers,
W76-01246 9-03 2C

RITISH COLUMBIA UNIV., VANCOUVER. EPT. OF GEOPHYSICS.
The Thermal Regime of Trapridge Glacier and Its Relevance to Glacier Surging,
W76-05916 9-12 2C

RITISH COLUMBIA UNIV., VANCOUVER. EPT. OF GEOPHYSICS AND ASTRONOMY.
Temperature Measurements in Fox Glacier, Yukon Territory,
W76-01251 9-03 2C

RITISH COLUMBIA UNIV., VANCOUVER. EPT. OF PLANT SCIENCE.
Effects of Bisulfite on Metabolic Development in Synchronous Chlorella Pyrenoidosa,
W76-11187 9-21 5C

RITISH COLUMBIA UNIV., VANCOUVER. EPT. OF ZOOLOGY.
Changes in Some Hematological Characteristics of Coho Salmon (Oncorhynchus Kisutch) in Response to Acute Exposure to Dehydroabietic Acid (DHAA) at Different Exercise Levels,
W76-10333 9-19 5C

Release of the Carcinogen Benzo(a) Pyrene from Environmentally Contaminated Mussels,
W76-12328 9-23 5B

RITISH COLUMBIA UNIV., VANCOUVER. NST. OF INTERNATIONAL RELATIONS.
Canada at the Third Law of the Sea Conference: Policy, Role, and Prospects,
W76-06827 9-14 6E

RITISH COLUMBIA UNIV., VANCOUVER. NST. OF OCEANOGRAPHY.
The Role of Tidal Mixing in Rupert and Holberg Inlets, Vancouver Island,
W76-02413 9-05 2L

Annual and Longer Term Variations of Deepwater Properties in the Coastal Waters of Southern British Columbia,
W76-02693 9-06 2L

Deepwater Exchanges in Bute Inlet, British Columbia,
W76-04096 9-09 2L

Taxonomic Difficulties in Red Tide and Paralytic Shellfish Poison Studies: The 'Tamarensis Complex' of Conyaulax,
W76-07614 9-15 5C

The Replication of Biological Events in Enclosed Water Columns,
W76-09226 9-17 5C

Metabolic Studies on the Amphipod Anisogammarus Pugettensis in Relation to its Trophic Position in the Food Web of Young Salmonids,
W76-12763 9-24 5C

BRITISH COLUMBIA UNIV., VANCOUVER. WESTWATER RESEARCH CENTRE.
An Assessment of University Interdisciplinary Research: The Wisconsin River and the Lower Fraser River Water Quality Studies,
W76-00077 9-01 5G

Research Issues in Water Quality Management,
W76-01351 9-03 5G

International River Basin Cooperation: Some Factors Influencing Agreement,
W76-05758 9-12 6E

Periphytic and Planktonic Algae of the Lower Fraser River in Relation to Water Quality Conditions,
W76-10504 9-20 5C

Chlorinated Hydrocarbon Residues in Fishes from the Lower Fraser River,
W76-10505 9-20 5C

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W76-07328 9-14 8G

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W76-01954 9-04 6E

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Production of Ice Crystals by Riming in Slightly Supercooled Cumulus,
W76-00019 9-01 2B

The Measurement of Heavy Rainfall Over Small Catchments Using Radar,
W76-00300 9-01 2B

A Representation of the Effects of Topography on Surface Rainfall Within Moving Baroclinic Disturbances,
W76-00312 9-01 2B

An Objective Rainfall Interpolation and Mapping Technique,
W76-07074 9-14 2B

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Comparison of Evaporation Measurements Using Different Methods,
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The Colorimetric Determination of Titanium in Chromites,
W76-02889 9-06 5A

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A Wind-Driven Near-Bottom Current in the Sourthern North Sea,
W76-07562 9-15 2L

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W76-05136 9-11 5B

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W76-01633 9-04 5D

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W76-06241 9-13 2E

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An Experiment in the Eutrophication of Terrestrial Ecosystems with Sewage: Evidence of Nitrification in a Late Successional Forest,
W76-03555 9-08 5C

Brookhaven's Two Sewage Treatment Plants,
W76-07044 9-14 5D

Aerosol Production from Land Application of Wastewater by Agricultural Irrigation Equipment,
W76-10625 9-20 5D

Meadow/Marsh Systems as Sewage Treatment Plants,
W76-12753 9-24 5D

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W76-01155 9-03 5D

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W76-08226 9-16 5G

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Models and the Decision Making Process: The Hudson River Power Plant Case,
W76-02987 9-06 6G

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Energy Projections--Relationship to Policy Issues,
W76-09603 9-18 6A

Coupled Energy System-Economic Models,
W76-09605 9-18 6A

BROOKLYN COLL., N. Y. DEPT. OF GEOLOGY.
The Hypsometric Integral and Low Streamflow in Two Pennsylvania Provinces,
W76-11743 9-22 2A

BROWN AND CALDWELL, INC., WALNUT CREEK, CALIF. PROCESS CONTROL DIV.
Full Automation Goal of Water Reclamation Plant,
W76-06337 9-13 5D

BROWN AND CALDWELL, WALNUT CREEK, CALIF.
Upgrading Lagoon Effluent for Best Practicable Treatment,
W76-00240 9-01 5D

Construction Procedures and Review of Plans and Grant Applications,
W76-05320 9-11 5D

Lime Recovery and Reuse in Primary Treatment,
W76-05785 9-12 5D

Lime Use in Wastewater Treatment: Design and Cost Data,
W76-05868 9-12 5D

Post-Tensioning System Repairs Old Digesters,
W76-07039 9-14 5D

Design of Integrated Approach to Nutrient Removal,
W76-12635 9-23 5D

BROWN AND ROOT, INC., HOUSTON, TEX.
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W76-06969 9-14 5D

Volume and Strength of a Dolos,
W76-10523 9-20 8F

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W76-05820 9-12 6B

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W76-05678 9-12 5B

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The Distribution of Nutrient Salts in the Morlaix Bay (Finistere, France): The Role of Benthic Algae, (In French),
W76-11583 9-21 5B

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Rainfall Measurements Above and in the Canopy of a Mixed Oak Forest,
W76-00583 9-02 2B

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Chemical Sorting Effect at the Base of an Alpine Glacier,
W76-05403 9-11 2C

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Contribution to the Study of the Effect of Copper on Mytilus Edulis During Reproductive Period,
W76-03056 9-07 5C

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W76-06917 9-14 4A

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W76-04222 9-09 5D

BULGARIAN ACADEMY OF SCIENCES, SOFIA. INST. OF BOTANY WITH BOTANICAL GARDEN.
Dependence of Stomatal Number and Size in Juglans Regia L. on Ecological Conditions, (In Bulgarian),
W76-08668 9-16 2I

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Assessment of Water Pollution of the Danube River in the Bulgarian Section (845-375 River KM) According to Indices of the Oxygen Regime, (In German),
W76-07292 9-14 5B

BUNDESANSTALT FUER GEWASSERKUNDE, COBLENZ (WEST GERMANY).
The Total Heat-Exchange Coefficient of Surface Waters,
W76-08867 9-17 5B

BUNDESANSTALT FUER VIRUSSEUCHENBEKAMPFUNG DER HAUSTIERE, VIENNA (AUSTRIA).
The Mercury Contents of Fish from Carinthian Lakes, (In German),
W76-07981 9-15 5C

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The Development of Carp Gonads in Warm Water Aquaria,
W76-03038 9-07 5C

Cadmium Uptake by Marine Fish Larvae,
W76-11184 9-21 5C

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W76-11546 9-21 5A

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W76-09287 9-17 5A

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Assessment of Polyvinyl Chloride as a Packaging Material for Distilled Spirits (Enivronmental Impact Assessment),
W76-10722 9-20 6

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Effect of Different Constant Incubation Temperatures on Egg Survival and Embryonic Development in Lake Whitefish (Coregonus Clupeaformis),
W76-02392 9-05 5

Dieldrin and DDT: Accumulation from Water and Food by Lake Trout (Salvelinus Namaycush) in the Laboratory,
W76-11279 9-21 5

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Pollution Abatement and Economic Growth: An Application of the Von Neumann Model to an Expanding Economy,
W76-02385 9-05 5

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The Red Sea Lights Agreement: Another Instance of International Cost-Sharing,
W76-07366 9-14 6

BUREAU OF HEALTH SERVICES RESEARCH ROCKVILLE, MD.
A Conceptual Framework for Research on the Cost-Effective Allocation of Federal Resources,
W76-04538 9-10 6

BUREAU OF INDIAN AFFAIRS, WASHINGTON, D. C.
Indian Prior and Paramount Rights Versus State Rights (Indian Water Rights),
W76-03588 9-08 6

Ahtanum Indian Irrigation Project.
W76-06835 9-14 3

BUREAU OF LAND MANAGEMENT, NEW ORLEANS, LA.
Identification and Mapping of Fishing Banks on the Outer Continental Shelf of the Gulf of Mexico,
W76-12228 9-23 6

BUREAU OF LAND MANAGEMENT, WASHINGTON, D.C.
Outer Continental Shelf Lands Act: Geological and Geophysical Data Submission Disclosure.
W76-04850 9-10 5

BUREAU OF LAND MANAGEMENT, WASHINGTON, D.C. OUTER CONTINENTAL SHELF ENVIRONMENTAL STUDIES PROGRAM.
Framework for Bureau of Land Management Programs,
W76-11476 9-21 6

BUREAU OF METEOROLOGY, MELBOURNE (AUSTRALIA).
Raindrop-Size Distributions in the Melbourne Area,
W76-01417 9-03 2

Methods of Determining Areal Rainfall from Observed Data,
W76-04130 9-09 2

REAU OF METEOROLOGY, MELBOURNE USTRALIA). DEPT. OF SCIENCE.
Field Study of Evaporation--Catalogue of Data for Phase I,
W76-03724 9-08 2D

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Identification of Gamma-Valerolactone in Waste Water From an Oil-Shale in Situ Retort,
W76-05448 9-11 5A

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Fracturing in the Zone Around a Blasthole, WhitePine, Minnesota,
W76-00035 9-01 8B

REAU OF MINES, TUSCALOOSA, ALA. SCALOOSA METALLURGY RESEARCH B.
Recovery of Feldspar and Glass Sand from Georgia Waste Granite Fines,
W76-04073 9-09 5D

REAU OF OUTDOOR RECREATION, TLANTA, GA. SOUTHEAST REGIONAL FFICE.
The Department of the Interior's Outer Continental Shelf Leasing Program,
W76-11475 9-21 6G

Freeing the Beaches: Is It Possible,
W76-13106 9-24 6E

REAU OF OUTDOOR RECREATION, ILADELPHIA, PA. NORTHEAST REGIONAL FFICE.
Discussion (Of, 'North Atlantic Regional Water Resources Study,' by H. E. Schwarz, et al.),
W76-00073 9-01 6B

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Interdisciplinary Approach to Geothermal Development,
W76-00070 9-01 4B

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Use of Drainage Wells,
W76-01566 9-04 4B

Planning Irrigation and Drainage Systems Using Retention and Extraction Limits,
W76-08553 9-16 3F

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Project Skywater, An Introduction to Rivers in the Sky.
W76-00288 9-01 3B

Investigation of Polymer-Impregnated Concrete Pipe,
W76-01489 9-03 8F

Prevention of Frazil Ice Clogging of Water Intakes By Application of Heat,
W76-01832 9-04 8A

Hydraulic Model Studies of the Teton Canal Outlet Works Energy Dissipator,
W76-01833 9-04 8B

Investigations of Aquatic Weed Control Methods and Their Environmental Effects on Nontarget Aquatic Species,
W76-06218 9-13 4A

Acrolein Residues in Irrigation Water and Effects on Rainbow Trout,
W76-06563 9-13 5C

A History of Bureau of Reclamation Construction- Part I,
W76-07222 9-14 8A

A History of Bureau of Reclamation Construction- Part II,
W76-07223 9-14 8A

Survey of Irrigation Canal Ecological Parameters Influencing Aquatic Weed Growth,
W76-07609 9-15 4A

Load and Voltage Control Algorithms for Grand Coulee Powerplant,
W76-08112 9-16 8C

Hydraulic Model Vortex Study-Grand Coulee Third Powerplant,
W76-08113 9-16 8B

Desalting Handbook for Planners.
W76-08584 9-16 3A

Project Skywater, A Program of Research in Precipitation Management, Volume I of II (Draft Environmental Statement).
W76-11868 9-22 3B

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W76-11869 9-22 3B

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Measuring Water Velocity by Ultrasonic Flowmeter,
W76-03749 9-08 8B

BUREAU OF RECLAMATION, DENVER, COLO. LOWER RIVER BASIN RESEARCH LAB.; AND ARIZONA STATE UNIV., TEMPE. DEPT. OF ZOOLOGY.
Change in Minnow Populations in a Small Desert Stream Resulting from Naturally and Artificially Induced Factors,
W76-02460 9-05 8I

BUREAU OF RECLAMATION, DENVER, COLO. RESEARCH AND ENGINEERING CENTER.
Systems Simulation as a Tool for Water Resource Planning, Including Qualitative Aspects,
W76-12551 9-23 4A

BUREAU OF RECLAMATION, DENVER, COLO. WATER FOR ENERGY MANAGEMENT TEAM.
Report on Water for Energy in the Upper Colorado River Basin.
W76-03727 9-08 6D

BUREAU OF RECLAMATION, DENVER, COLO. WATER QUALITY OFFICE.
Salinity Control and Federal Water Quality Act,
W76-00617 9-02 5G

Extraction of Information on Inorganic Water Quality,
W76-01844 9-04 5A

Salinity Control Planning in the Colorado River System,
W76-02230 9-05 3A

BUREAU OF RECLAMATION, MILES CITY, MONT. DIV. OF ATMOSPHERIC WATER RESOURCES MANAGEMENT.
Field Observations of the Persistence of AgI-NH4I-Acetone Ice Nuclei in Daylight,
W76-05677 9-12 3B

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Marble Bluff Dam and Pyramid Lake Fishway, Washoe Project, Nevada (Final Environmental Impact Statement).
W76-00958 9-02 8A

Professional Requirements of Modern Water Engineers Involved in River Basin Management Utilizing Contemporary Tools,
W76-12537 9-23 4A

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A Practical Monthly Optimum Operations Model,
W76-06436 9-13 4A

BUREAU OF RECLAMATION, WASHINGTON, D.C.
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W76-00716 9-02 6B

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W76-00717 9-02 6B

BUREAU OF SPORT FISHERIES AND WILDLIFE, COLUMBIA, MO. FISH-PESTICIDE RESEARCH LAB.
Acquisition and Culture of Research Fish: Rainbow Trout, Fathead Minnows, Channel Catfish, and Bluegills,
W76-00680 9-02 5G

BUREAU OF SPORT FISHERIES AND WILDLIFE, COOK, WASH. WESTERN FISH NUTRITION LAB.
Inhibition of Salt Water Survival and Na-K-ATPase Elevation in Steelhead Trout (Salmo Gairdneri) by Moderate Water Temperatures,
W76-03778 9-08 5C

BUREAU OF SPORT FISHERIES AND WILDLIFE, DENVER, COLO. DENVER WILDLIFE RESEARCH CENTER.
Long-Term Effects of 4-Aminopyridine Exposure to Birds and Fish,
W76-03043 9-07 5C

BUREAU OF SPORT FISHERIES AND WILDLIFE, FAYETTEVILLE, ARK. SOUTH CENTRAL RESERVOIR INVESTIGATIONS.
A Review of Literature on the Use of Potassium Permanganate (KMn04) in Fisheries,
W76-12335 9-23 5C

BUREAU OF SPORT FISHERIES AND WILDLIFE, LA CROSSE, WIS. FISH CONTROL LAB.
Urinary Excretion of Quinaldine by Channel Catfish,
W76-00439 9-01 5C

Toxicity of Potassium Permanganate to Fish and its Effectiveness for Detoxifying Antimycin,
W76-02323 9-05 5C

Renal Excretion in Coho Salmon (Oncorhynchus Kisutch) After Acute Exposure to 3iTrifluoromethyl-4-Nitro-Phenol,
W76-03033 9-07 5C

Method for Assessment of Toxicity or Efficacy of Mixtures of Chemicals,
W76-07718 9-15 5C

Laboratory Efficacy of 3-Trifluoromethyl-4-Nitrophenol (TFM) as a Lampricide,
W76-08063 9-15 5C

Residues of 3-Trifluoromethyl-4-Nitrophenol (TFM) in a Stream Ecosystem After Treatment for Control of Sea Lampreys,
W76-08066 9-15 5C

BUREAU OF SPORT FISHERIES AND WILDLIFE, MARION, ALA. SOUTHEASTERN FISH CULTURAL LAB.
Endrin Toxicity and Distribution in Freshwater: A Review,
W76-09122 9-17 5C

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W76-08064 9-15 5C

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Environmental Factors Affecting the Strength of Walleye (Stizostedion Vitreum Vitreum) Year-Classes in Western Lake Erie, 1960-70,
W76-03653 9-08 5C

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Excess Nitrogen Gas In Water Not a Cause of Coagulated Yolk Disease in Chinook Salmon,
W76-01935 9-04 5C

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Accumulation and Loss of Residues of 3-Trifluoromethyl-4-Nitrophenol (TFM) in Fish Muscle Tissue: Laboratory Studies,
W76-08065 9-15 5C

BUREAU OF SPORT FISHERIES AND WILDLIFE, WASHINGTON, D.C.
Some Chronic Effects of 2,4,-D on the Bluegill, (Lepomis Macrochirus),
W76-04923 9-10 5C

BURK AND ASSOCIATES, INC., NEW ORLEANS, LA.
Environmental Investigation of Eden Isles,
W76-10510 9-20 5G

BURMAH OIL AND GAS CO., HOUSTON, TEX. (ASSIGNEE).
Clarification Tank,
W76-10486 9-19 5D

BURNS AND MCDONNELL, KANSAS CITY, MO.
Aerated Lagoons Solve Town's Site Problems,
W76-05799 9-12 5D

Underlake Sewer Spurs Resort Development,
W76-10685 9-20 5D

Estimating Stock Water Use in Rural Water Systems,
W76-11696 9-22 3F

BURNS AND ROE CONSTRUCTION CORP., PARAMUS, N. J.
Final Report, Material Evaluation and Development Program, OSW San Diego Test Facility,
W76-10552 9-20 3A

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W76-10553 9-20 3A

BURNS AND ROE, INC., HEMPSTEAD, N. Y.
Perforated-Pipe Water Intake for Fish Protection,
W76-08137 9-16 8I

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W76-00164 9-01 3A

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W76-06547 9-13 3A

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W76-11325 9-21 3A

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W76-01330 9-03 5D

CACI, INC., ARLINGTON, VA.
Optimum Dredged Depth in Inland Waterway,
W76-06182 9-13 2J

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W76-10926 9-20 5A

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W76-09988 9-18 3C

CAIRO UNIV., GIZA (EGYPT). DEPT. OF AGRONOMY; AND CAIRO UNIV., GIZA (EGYPT). FACULTY OF AGRICULTURE.
Effect of Irrigation Regimes in Relation to Chlorcholine Chloride (CCC) Application on Wheat,
W76-06279 9-13 3F

CAIRO UNIV., GIZA (EGYPT). DEPT. OF BOTANY.
Eco-Physiological Studies on Desert Plants: IX. Types of Transpiration Curves of Zilla Spinosa Prantl Under Natural Conditions,
W76-06123 9-12 2D

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Soil Properties as Affected by Topography in Desert Wadis,
W76-11196 9-21 2G

CALCUTTA METROPOLITAN PLANNING ORGANIZATION (INDIA).
Giant 1 472 Ml/d Waterworks at Garden Reach Calcutta,
W76-00260 9-01 5

CALCUTTA UNIV. (INDIA). DEPT. OF AGRICULTURE.
Effect of Late Sowing on Morphogenetic Development of Panicle in Rice (Oryza Sativa L.),
W76-08758 9-17 3

CALCUTTA UNIV. (INDIA). DEPT. OF APPLIED CHEMISTRY.
Studies on Use of Flyash in Conjunction with Alum for Coagulation of Turbid Water,
W76-00232 9-01 5

Acidified Alum Sludge and Fly-Ash as Adjunct to Coagulation,
W76-00262 9-01 5

CALDWELL CONNELL ENGINEERS, MELBOURNE (AUSTRALIA).
Advances in Wastewater Treatment in Melbourne: South Eastern System,
W76-00784 9-02 5

Rationale for a Water Pollution Code (Part II) Social Assessment,
W76-10592 9-20 5C

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Response of Soil Testacea to Soil Moisture Fluctuations,
W76-06038 9-12 2C

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W76-10940 9-20 4C

CALGARY UNIV. (ALBERTA). DEPT. OF PHYSICS.
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W76-12169 9-23 2C

CALGON CORP., PITTSBURGH, PA. (ASSIGNEE).
Water Soluble Block Polymers Used as Silt Control Agents,
W76-02991 9-06 5F

Inhibition of Scale Deposition,
W76-05529 9-12 5D

CALGON, CORP., PITTSBURGH, PA. WASTEWATER APPLICATIONS RESEARCH.
Ammonia Removal-What's Best,
W76-00258 9-01 5D

CALIF. STATE COLL., ROHNERT PARK.
Volume Changes in Swelling Clays,
W76-09881 9-18 2G

CALIFORNIA DEPT. OF WATER RESOURCES, LOS ANGELES. SOUTHERN DISTRICT.
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W76-00888 9-02 7C

CALIFORNIA INST. OF TECH., PASADENA.
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W76-05103 9-11 5D

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W76-05755 9-12 6A

An Evaluation of the Potential for Ecological Damage by Chronic Low-Level Environmental Pollution by Fluoride,
W76-08038 9-15 5C

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Sampling and Analysis of Metals in Air, Water and Waste Products,
W76-10639 9-20 5A

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Automated Wet Sand Feeder for Open-Circuit Flumes,
W76-06936 9-14 8B

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Polycultural Wastewater Reclamation at California Polytechnic State University--An Academic Instructional System,
W76-03567 9-08 5D

ALIFORNIA REGIONAL WATER QUALITY ONTROL BOARD, OAKLAND. SAN RANCISCO BAY REGION.
Special Time Schedule for the City and County of San Francisco Relative to Regulation of Discharges from Combined Sewers,
W76-00806 9-02 6E

ALIFORNIA REGIONAL WATER QUALITY ONTROL BOARD, SOUTH LAKE TAHOE. AHONTON REGION.
Environmental Effects of Advanced Wastewater Treatment at South Lake Tahoe,
W76-03828 9-08 5D

ALIFORNIA STATE DEPT. OF FISH AND AME, SACRAMENTO. REGIONAL II.
Effects of a Parasitic Gut Nematode on Consumption and Growth in Juvenile Rainbow Trout (Salmo Gairdneri),
W76-01622 9-04 8I

ALIFORNIA STATE DEPT. OF FISH AND AME, STOCKTON.
A Functional Evaluation of a Large Louver Screen Installation and Fish Facilities Research on California Water Diversion Projects,
W76-08652 9-16 8I

ALIFORNIA STATE DEPT. OF FISH AND AME, STOCKTON. DELTA FISH AND ILDLIFE STUDY.
Entrainment and Thermal Effects on a Mysid Shrimp and Striped Bass in the Sacramento-San Joaquin Delta,
W76-08631 9-16 5C

ALIFORNIA STATE DEPT. OF HEALTH, ERKELEY. WATER SANITATION SECTION.
Organic Chemicals in Drinking Water,
W76-03428 9-07 5F

ALIFORNIA STATE DEPT. OF HEALTH, LOS NGELES. WATER SANITATION SECTION.
Organics, Water, and Health: A Reuse Problem,
W76-01789 9-04 5D

CALIFORNIA STATE DEPT. OF JUSTICE, SAN FRANCISCO.
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W76-05192 9-11 6E

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Disposal of Domestic Wastewater by Hillside Sprays,
W76-01295 9-03 5E

CALIFORNIA STATE DEPT. OF PUBLIC WORKS, OAKLAND.
Oakland Maps Program to Combat Sewer Infiltration,
W76-00792 9-02 5D

CALIFORNIA STATE DEPT. OF WATER RESOURCES, SACRAMENTO.
Cathodic Protection Wells and Ground Water Pollution,
W76-09357 9-17 5G

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W76-11491 9-21 4B

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Weather Modification Operations in California, October 1, 1972 - September 30, 1973,
W76-01530 9-04 3B

CALIFORNIA STATE DEPT. OF WATER RESOURCES, SACRAMENTO. DIV. OF RESOURCES DEVELOPMENT.
California High Water, 1972-1973,
W76-01315 9-03 2E

California High Water, 1973-1974,
W76-01482 9-03 2E

CALIFORNIA STATE LANDS DIV., SACRAMENTO. GRANTED LANDS AND AREA PROJECTS.
Survey Problems Along the California-Arizona Boundary,
W76-02166 9-05 4A

CALIFORNIA STATE UNIV., CHICO.
A Summary of the Biogeochemistry of Nitrogen Compounds in Ground Water,
W76-03358 9-07 5B

CALIFORNIA STATE UNIV., FULLERTON. DEPT. OF BIOLOGY.
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W76-07482 9-15 5C

CALIFORNIA STATE UNIV., LONG BEACH.
The Effect of Heavy Metals on Laboratory Populations of Two Polychaetes with Comparisons to the Water Quality Conditions and Standards in Southern California Marine Waters,
W76-08451 9-16 5C

CALIFORNIA STATE UNIV., LONG BEACH. DEPT. OF BIOLOGY.
Induction of Abnormal Polychaete Larvae by Heavy Metals,
W76-11726 9-22 5C

The Effect of Various Water Temperatures on the Survival and Reproduction in Polychaetous Annelids: Preliminary Report,
W76-11797 9-22 5C

CALIFORNIA STATE UNIV., LONG BEACH. DEPT. OF CIVIL ENGINEERING.
Numerical Model for Wave Refraction by Finite Amplitude Wave Theories,
W76-10434 9-19 2L

CALIFORNIA STATE UNIV., SACRAMENTO. DEPT. OF CIVIL ENGINEERING.
Management of an Effective Maintenance Program,
W76-06333 9-13 5G

CALIFORNIA STATE UNIV., SAN DIEGO.
The Role of the Academic in Water Resources Policy-Making: The Tijuana River, A Case Study,
W76-01359 9-03 6B

CALIFORNIA STATE UNIV., SAN DIEGO. DEPT. OF BIOLOGY.
Potential Use of Vegetation to Enhance Cooling in Holding Ponds,
W76-02025 9-05 5C

CALIFORNIA STATE WATER RESOURCES CONTROL BOARD, SACRAMENTO.
Manure Waste Ponding Study,
W76-01038 9-03 5D

Modernizing State Water Rights Laws: Some Suggestions For New Directions,
W76-03593 9-08 6E

California Water Pollution Control Laws.
W76-04369 9-09 5G

Requirements and Responsibilities of the State Water Resources Control (Regulations for Implementation of the Environmental Quality Act of 1970).
W76-04370 9-09 5G

State Viewpoint: (The Federal Water Pollution Control Act and the States: Love in Bloom or Marriage on the Rocks),
W76-06824 9-14 5G

Laboratory Centrifuge Saves Time and Money,
W76-09704 9-18 5D

Safe Drinking Water Act - Implications for Ground Water Quality Protection,
W76-11064 9-20 5F

CALIFORNIA STATE WATER RESOURCES CONTROL BOARD, SACRAMENTO. DIV. OF PLANNING AND RESEARCH.
Research Needs for Water Resources Control in California.
W76-03265 9-07 5G

Ground Water Quality Monitoring for California's Needs,
W76-11065 9-20 5A

CALIFORNIA UNIV., BERKELEY.
Hydraulic Handling of Poultry Manure Integrated into an Algal Recovery System.
W76-00915 9-02 5D

Properties of Soil in the San Fernando Hydraulic Fill Dams,
W76-07219 9-14 8D

The Slides in the San Fernando Dams During the Earthquake of February 9, 1971,
W76-07220 9-14 8B

Causes of Slaking in Argillaceous Materials,
W76-07329 9-14 8G

Development of a Methodology for Monitoring Groundwater Quality,
W76-10658 9-20 5A

CALIFORNIA UNIV., BERKELEY.

Preliminary Studies of Asbestiform Fibers in Domestic Water Supplies,
W76-12325 9-23 5A

CALIFORNIA UNIV. BERKELEY; AND CLEAR LAKE ALGAL RESEARCH UNIT, LAKEPORT, CALIF.
Algal Nitrogen Fixation in Californian Streams: Seasonal Cycles,
W76-05639 9-12 5C

CALIFORNIA UNIV., BERKELEY; AND SOUTHERN CALIFORNIA COASTAL WATER RESEARCH PROJECT, BERKELEY.
Evaluating the Impact of Sludge Discharge to Santa Monica Bay, California,
W76-05088 9-11 5C

CALIFORNIA UNIV., BERKELEY. (ASSIGNEE).
Method and Apparatus for the Destructive Decomposition of Organic Wastes Without Air Pollution and With Recovery of Chemical Byproducts,
W76-08459 9-16 5D

CALIFORNIA UNIV., BERKELEY. DEPT. OF CHEMICAL ENGINEERING.
Study of Mass and Current Transfer in Membrane Processes,
W76-04502 9-10 3A

CALIFORNIA UNIV., BERKELEY. DEPT. OF CHEMICAL ENGINEERING; AND CALIFORNIA UNIV., BERKELEY. SEA WATER CONVERSION LAB.
Determination of Surface Equilibria and Mass Transfer Rates in a Concurrent Flow Bubble Column,
W76-10632 9-20 5D

CALIFORNIA UNIV., BERKELEY. DEPT. OF CIVIL ENGINEERING.
An Identification Approach to Subsurface Hydrological Systems,
W76-05688 9-12 2F

Durability of Concrete in Seawater,
W76-07218 9-14 8F

An Integrated Finite Difference Method for Analyzing Fluid Flow in Porous Media,
W76-08123 9-16 2F

Transverse Dispersion in Partially Stratified Tidal Flow,
W76-11486 9-21 2L

Pore-Water Pressure Changes During Soil Liquifaction,
W76-13171 9-24 8D

CALIFORNIA UNIV., BERKELEY. DEPT. OF PLANT PATHOLOGY.
Occurrence of Phytophthora Species and Other Potential Plant Pathogens in Recycled Irrigation Water,
W76-06010 9-12 5C

CALIFORNIA UNIV., BERKELEY. DEPT. OF SOILS AND PLANT NUTRITION.
Nitrate Reduction and Associated Microbial Populations in a Ponded Hanford Sandy Loam,
W76-08546 9-16 5G

CALIFORNIA UNIV., BERKELEY. DIV. OF ENERGY AND ENVIRONMENT.
Aqueduct Optimization with Intermediate Storage,
W76-09636 9-18 4A

CALIFORNIA UNIV., BERKELEY. DIV. OF HYDRAULIC AND SANITARY ENGINEERING.
Chemical Treatment for Phosphate Control,
W76-03242 9-07 5D

CALIFORNIA UNIV., BERKELEY. DIV. OF SANITARY ENGINEERING.
Algal Nitrogen Fixation in Californian Streams: Diel Cycles and Nocturnal Fixation,
W76-05463 9-11 5C

CALIFORNIA UNIV., BERKELEY. EARTHQUAKE ENGINEERING RESEARCH CENTER.
Dynamic Properties of San Bernardino Intake Tower,
W76-04107 9-09 8A

Nonlinear Earthquake Response of Concrete Gravity Dams,
W76-08426 9-16 8F

CALIFORNIA UNIV., BERKELEY. GRADUATE SCHOOL OF PUBLIC POLICY.
Resource Allocation Under Uncertainty,
W76-03266 9-07 6A

CALIFORNIA UNIV., BERKELEY. LAWRENCE BERKELEY LAB.
Energy Modeling and Forecasting.
W76-09602 9-18 6A

Optimization of Design Capacity of an Aqueduct,
W76-12526 9-23 4A

CALIFORNIA UNIV., BERKELEY. LAWRENCE BERKELEY LAB.; AND CALIFORNIA UNIV., BERKELEY. DIV. OF ENERGY AND ENVIRONMENT.
Stability Indicators for Nutrient Cycles in Ecosystems,
W76-04838 9-10 5C

CALIFORNIA UNIV., BERKELEY. NAVAL BIOMEDICAL RESEARCH LAB.
Determination of Hydrocarbons in Marine Organisms and Sediments by Thin Layer Chromatography,
W76-10407 9-19 5A

CALIFORNIA UNIV., BERKELEY. SANITARY ENGINEERING RESEARCH LAB.
An Evaluation of the Accumulation, Translocation, and Degradation of Pesticides at Land Wastewater Disposal Sites,
W76-03871 9-08 5B

Photosynthetic Reclamation of Agricultural Solid and Liquid Wastes,
W76-12349 9-23 5D

Solar Energy Fixation and Conversion with Algal Bacterial Systems,
W76-12968 9-24 5D

CALIFORNIA UNIV., BERKELEY. SCHOOL OF FORESTRY AND CONSERVATION.
Upstream Changes in Fish Populations Following Impoundment of Sagehen Creek, California,
W76-10619 9-20 2I

CALIFORNIA UNIV., BERKELEY. SCHOOL OF PUBLIC HEALTH.
Identification and Potential Biological Effects of the Major Components in the Seawater Extract of a Bunker Fuel,
W76-03781 9-08 5A

Effect of a Bunker Fuel on the Beach Bacterial Flora,
W76-09326 9-17 5C

The Fate of a Bunker Fuel in Beach Sand,
W76-09328 9-17

Identification and Potential Biological Effe of the Major Components in the Seawater tract of a Bunker Fuel,
W76-11099 9-20

CALIFORNIA UNIV., BERKELEY. SEA WAT CONVERSION LAB.
Development of Vertical Tube Foam Evapo tion for Desalination,
W76-03256 9-07

CALIFORNIA UNIV., BERKELEY, SEISMOLOGICAL LAB.
Seismic Instrumentation of Dams,
W76-05667 9-12

CALIFORNIA UNIV., BERKELEY. SPACE SCIENCES LAB.
Application of Real-Time Mass Spectromet Techniques to Environmental Orga Geochemistry. I. Computerized High Reso tion Mass Spectrometry and Gas Chromat raphy-Low Resolution Mass Spectrometry,
W76-09687 9-18

CALIFORNIA UNIV., BERKELEY. WATER RESOURCES CENTER ARCHIVES.
Sources of Information in Water Resources, Annotated Guide to Printed Materials,
W76-10881 9-20

CALIFORNIA UNIV., DAVIS.
Trace Elements in Biological Waste Treatme with Specific Reference to the Activat Sludge Process,
W76-03700 9-08

CALIFORNIA UNIV., DAVIS; AND FOOD AN AGRICULTURE ORGANIZATION OF THE UNITED NATIONS, ROME (ITALY) LAND AN WATER DEVELOPMENT DIV.
Surface Irrigation,
W76-00192 9-01

CALIFORNIA UNIV., DAVIS. CROCKER NUCLEAR LAB.
Application of Energy-Dispersive X-R Fluorescence to Trace Metal Analysis of Nat ral Waters,
W76-02510 9-06

CALIFORNIA UNIV., DAVIS. DEPT. OF AGRICULTURAL ECONOMICS.
An Analysis of Water Resource Benefit Dete mination Methods with Special Reference the Cosumnes River Division Project,
W76-05441 9-11

CALIFORNIA UNIV., DAVIS. DEPT. OF AGRICULTURAL ECONOMICS; AND CALIFORNIA UNIV., DAVIS. DEPT. OF WATER SCIENCE AND ENGINEERING.
Institutional Rationing of Canal Water Northern India: Conflict Between Tradition Patterns and Modern Needs,
W76-06235 9-13

CALIFORNIA UNIV., DAVIS. DEPT. OF AGRICULTURE ECONOMICS.
A Quadratic Programming Approach to th Production of California Field and Vegetabl Crops Emphasizing Land, Water and Energ Use,
W76-11326 9-21

IFORNIA UNIV., DAVIS. DEPT. OF MAL PHYSIOLOGY.
anslocation of Hydrocarbons in Aquatic od Chains,
76-01921 9-04 5C

IFORNIA UNIV., DAVIS. DEPT. OF AVIAN ENCE.
uoride Tolerance of Japanese Quail,
76-10120 9-19 5C

IFORNIA UNIV., DAVIS. DEPT. OF MICAL ENGINEERING.
emoval of Organic Carbon from Water by Oxation with Solid Catalysts,
76-02364 9-05 5D

IFORNIA UNIV., DAVIS. DEPT. OF CIVIL INEERING.
nother Look at the NRC Formula,
76-00368 9-01 5D

ological Treatment of Winery Stillage,
76-04731 9-10 5D

bonacci Search for High-Yield Well Sites,
76-06686 9-13 4B

ndamental Aspects of Erosion of Cohesive ils,
76-08540 9-16 2J

nite Element Model for Cohesive Sediment ansport,
76-09264 9-17 2L

oblems and Techniques of Marine Biology in e Field: Modeling the Marine Ecosystem,
76-10355 9-19 5C

ass Transfer Limitations on Trickling Filter esign,
76-12608 9-23 5D

ctivated Sludge, (Literature Review),
76-12675 9-23 5D

IFORNIA UNIV., DAVIS. DEPT. OF CTRICAL ENGINEERING.
ultispectral Combination and Display of RTS-1 Data,
76-02054 9-05 7C

IFORNIA UNIV., DAVIS. DEPT. OF FOOD ENCE AND TECHNOLOGY.
Photochemical Side Reaction That Interferes ith the Phenolhypochlorite Assay for Amonia,
76-06712 9-13 5A

ortalities and Epibiotic Fouling of Eggs from ild Populations of the Dungeness Crab, ancer Magister,
76-08444 9-16 5C

IFORNIA UNIV., DAVIS. DEPT. OF LAND, AND WATER RESOURCES.
nergy Requirements of Alternatives in Water pply, Use and Conservation: A Preliminary eport,
76-04800 9-10 6B

filtration of Organic Phosphate Compounds Soil,
76-06170 9-13 5B

patial Variability of the Leaching Characristics of a Field Soil,
76-07089 9-14 2G

etermining the Hydraulic Conductivity of Soil pres by Centrifugation,
76-09256 9-17 2G

Computer Program for Three-Dimensional Plottings from Irregular Finite Element Grid,
W76-11327 9-21 2F

CALIFORNIA UNIV., DAVIS. DEPT. OF SOILS AND PLANT NUTRITION.
Farm Animal Manures: An Overview of Their Role in the Agricultural Environment,
W76-10548 9-20 5G

CALIFORNIA UNIV., DAVIS. DEPT. OF WATER SCIENCE AND ENGINEERING.
Computer Modeling of Nitrogen Transformations in Soils,
W76-00831 9-02 2G

Coupled Saturated-Unsaturated Transient Flow in Porous Media: Experimental and Numeric Model,
W76-05684 9-12 2F

Irrigating Corn and Grain Sorghum with a Deficient Water Supply,
W76-08544 9-16 3F

A Three-Dimensional Galerkin Finite Element Solution of Flow Through Multiaquifers in Sutter Basin, California,
W76-09562 9-18 2F

On the Capacity-Expansion of Desalination Plants and Storage Tanks,
W76-09618 9-18 3A

Adsorption of Picloram (4-Amino-3,5,6-Trichloropicolinic Acid) on Panoche, Ephrata, and Palouse Soils: A Thermodynamic Approach to the Adsorption Mechanism,
W76-12142 9-22 5B

Water Production Functions and Predicted Irrigation Programs for Principal Crops as Required for Water Resources Planning and Increased Water Use Efficiency,
W76-12236 9-23 3F

CALIFORNIA UNIV., DAVIS. DEPT. OF ZOOLOGY.
Underwater Observations of Gelatinous Zooplankton: Sampling Problems, Feeding Biology, Land Behavior,
W76-09598 9-18 5C

CALIFORNIA UNIV., DAVIS. DIV. OF ENVIRONMENTAL STUDIES.
Complexation Side Reactions Involving Trace Metals in Natural Water Systems,
W76-03411 9-07 2K

The Effects of a Benthic Grazer on the Primary Productivity of the Littoral Zone of Lake Tahoe,
W76-06719 9-13 5C

CALIFORNIA UNIV., DAVIS. DIV. OF ENVIRONMENTAL STUDIES; AND CALIFORNIA UNIV., DAVIS. INST. OF ECOLOGY.
Vertical Patterns of Eddy Diffusion During Stratification in Castle Lake, California,
W76-02414 9-05 2H

CALIFORNIA UNIV., DAVIS. INST. OF ECOLOGY.
Eutrophication of Lake Tahoe Emphasizing Water Quality,
W76-04569 9-10 5C

CALIFORNIA UNIV., DAVIS. INST. OF ECOLOGY; AND CALIFORNIA UNIV., DAVIS. DEPT. OF PHYSICS.
Air Quality in the Lake Tahoe Basin,
W76-07797 9-15 5A

CALIFORNIA UNIV., DAVIS. WATER RESOURCES CENTER.
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W76-05247 9-11 9D

CALIFORNIA UNIV., IRVINE.
Environmental Quality Research, First Annual Report,
W76-09654 9-18 5C

CALIFORNIA UNIV., IRVINE. DEPT. OF ENVIRONMENTAL BIOLOGY.
Effects of Power-Plant Cooling Systems on Marine Phytoplankton,
W76-10339 9-19 5C

CALIFORNIA UNIV., IRVINE. DEPT. OF POPULATION AND ENVIRONMENTAL BIOLOGY.
Impact of Sewage on the Distribution, Abundance and Community Structure of Rocky Intertidal Macroorganisms,
W76-03023 9-07 5C

Salinity Tolerance of Laboratory-Reared Larvae of the California Killifish, Fundulus Parvipinnis Girard,
W76-03039 9-07 5C

The Primary Productivity of Marine Macrophytes from a Rocky Interidal Community,
W76-07965 9-15 5C

CALIFORNIA UNIV., LIVERMORE. LAWRENCE LIVERMORE LAB.
A Methodology for Impact Assessment in the Estuarine/Marine Environment,
W76-06910 9-14 6G

Survey of Current Environmental Research on San Francisco Bay and Delta Waters,
W76-06911 9-14 6G

San Fracisco Bay and Delta System: A Selected Bibliography,
W76-06912 9-14 2L

Judicially Enforceable Rights Under National Environmental Policy Act,
W76-07370 9-14 6E

Plutonium Radionuclides in the Groundwaters at Enewetak Atoll,
W76-08607 9-16 5B

Isotopic Analysis of Plutonium in Environmental Samples by Isotope Dilution Mass Spectrometry,
W76-08612 9-16 5A

Procedure for Plutonium Analysis of Large (100 g) Soil and Sediment Samples,
W76-08613 9-16 5A

Preliminary Evaluation of the Radiological Quality of the Water on Bikini and Eneu Islands,
W76-12701 9-24 5C

Cadmium Concentrations in Rock Scallops in Comparison with some other Species,
W76-12715 9-24 5C

CALIFORNIA UNIV., LOS ANGELAS. DEPT. OF ENGINEERING SYSTEMS.
Operations Models for Central Valley Project,
W76-07237 9-14 4A

CALIFORNIA UNIV., LOS ANGELES.
Discussion (Of, 'Interdisciplinary Approach to Geothermal Development,' by M. K. Fulcher),
W76-00071 9-01 4B

Water Quality Management Planning for the Roaring Fork River Basin in Western Colorado,
W76-02563 9-06 5G

Optimal Identification of Parameters in an Inhomogeneous Medium with Quadratic Programming,
W76-03369 9-07 2F

Optimal Timing and Sizing of a Conjunctive Water Supply and Wastewater System, Using Nonlinear Programming,
W76-12621 9-23 5F

Wastewater Reclamation and Re-Use: The Responsibilities of the Consulting Engineer,
W76-12622 9-23 5D

CALIFORNIA UNIV., LOS ANGELES. DEPT. OF BIOLOGY.
Environmental Regulation of the Annual Reproductive Season of Strongylocentrotus Purpuratus (Stimpson),
W76-10888 9-20 5C

CALIFORNIA UNIV., LOS ANGELES. DEPT. OF CIVIL ENGINEERING.
Systems Approach for the Planning and Management of the Morava River Basin, Yugoslavia,
W76-11886 9-22 4A

CALIFORNIA UNIV., LOS ANGELES. DEPT. OF ENGINEERING SYSTEMS.
Aquifer Parameter Identification,
W76-00650 9-02 2F

The Galerkin Method for Nonlinear Parabolic Equations of Unsteady Groundwater Flow,
W76-03129 9-07 2F

A Proposed Algorithm for the Solution of the Large-Scale Inverse Problem in Groundwater,
W76-09850 9-18 2F

Optimization of Real Time Daily Operation of a Multiple Reservoir System,
W76-12155 9-23 4A

CALIFORNIA UNIV., LOS ANGELES, DEPT. OF GEOLOGY.
Depositional Environment Interpretation from Settling-Velocity (PSI) Distributions,
W76-01265 9-03 2J

An Improved in Situ pH Sensor for Oceanographic and Limnological Applications,
W76-12479 9-23 7B

CALIFORNIA UNIV., LOS ANGELES. DEPT. OF HISTORY.
Water and the West: The Colorado River Compact and the Politics of Water in the American West,
W76-00384 9-01 6E

CALIFORNIA UNIV., LOS ANGELES. DEPT. OF METEOROLOGY.
A Numerical Determination of the Efficiency with Which Electrically Charged Cloud Drops and Small Raindros Collide with Electrically Charged Spherical Particles of Various Densities,
W76-03108 9-07 2B

A Numerical Investigation of the Efficiency with Which Simple Columnar Ice Crystals Collide with Supercooled Water Drops,
W76-04679 9-10 2B

CALIFORNIA UNIV., LOS ANGELES. DIV. OF ENVIRONMENTAL BIOLOGY.
Different Levels of Soil Organic Matter in Desert Soil and Nitrogen Fertilizer on Yields and Mineral Composition of Barley Grown in the Soil,
W76-10170 9-19 3F

CALIFORNIA UNIV., LOS ANGELES. INST. OF GEOPHYSICS AND PLANETARY PHYSICS.
Overview of Water Requirements for Electric Power Generation, (For the Lower Colorado River Basin),
W76-00746 9-02 6D

CALIFORNIA UNIV., LOS ANGELES. LAB. OF NUCLEAR MEDICINE AND RADIATION BIOLOGY.
Empirical Methods of Using Soils as Radiation Dosimeters,
W76-00542 9-02 5A

Sodium Relations in Desert Plants: 3. Cation-Anion Relationships in Three Species Which Accumulate High Levels of Cations in Leaves,
W76-02158 9-05 3C

Effects of Rainfall and Temperature on the Distribution and Behavior of Larrea Tridentata (Creosote-Bush) in the Mojave Desert of Nevada,
W76-02524 9-06 2I

Quantitative Studies of Roots of Perennial Plants in the Mojave Desert,
W76-02531 9-06 2I

Sodium Relations in Desert Plants: 4. Some Physiological Responses of Atriplex Confertifolia to Different Levels of Sodium Chloride,
W76-02968 9-06 3C

Contribution of Salts to the Water Potential of Woody Plants,
W76-09691 9-18 3C

Mobilization of Nutrients in Soil by Acids of Sulfur and Chelating Agents,
W76-10316 9-19 5B

Nitrogen-Silicon Interaction in Plants Grown in Desert Soil with Nitrogen Deficiency,
W76-11509 9-21 3F

CALIFORNIA UNIV., LOS ANGELES. OFFICE OF ENVIRONMENTAL SCIENCE AND ENGINEERING.
Non-Point Source Water Quality Monitoring, INYO National Forest, 1975,
W76-11492 9-21 5A

CALIFORNIA UNIV., LOS ANGELES. SCHOOL OF ARCHITECTURE AND URBAN PLANNING.
Residential Water Conservation,
W76-08103 9-16 3D

CALIFORNIA UNIV., LOS ANGELES. SCHOOL OF ENGINEERING AND APPLIED SCIENCE.
Relative Transport Rates of Alakli Ion Across Cellulose Acetate Membranes,
W76-03960 9-08 3A

Reclamation of Hyperion Secondary Effluent by Reverse Osmosis,
W76-03961 9-08 5D

CALIFORNIA UNIV., LOS ANGELES. SCHOO OF PUBLIC HEALTH.
Irrigation Efficiency in the Production California Crop Calories and Proteins,
W76-10875 9-20

CALIFORNIA UNIV., LOS ANGELES. URBA PLANNING PROGRAMS.
Coase, Social Cost and Stability: An Inte tive Essay,
W76-02616 9-06

CALIFORNIA UNIV., PARLIER.
Preventing Water Pollution from Tur Operations,
W76-10535 9-20

CALIFORNIA UNIV., RIVERSIDE.
A Rationale for a Corporate Air Pollut Abatement Policy,
W76-01619 9-04

Evapotranspiration of Dryland Barley W Different Plant Spacing Patterns,
W76-01697 9-04

Bulk Density Sampler for Deep Soil Profiles,
W76-06171 9-13

Environmental Policy Costs: Definition, M surement, and Conjecture,
W76-11159 9-21

Yield and Heavy Metal Content of Food Cr Grown on Soils Amended with Sewage Sludg
W76-11610 9-21

CALIFORNIA UNIV., RIVERSIDE. AGRICULTURAL EXTENSION SERVICE.
Dairy Waste Storage Ponds for Soil-Pl Recycling,
W76-04421 9-09

An Analysis of Dairy Waste Management ternatives for Southern California Dairymen,
W76-10534 9-20

CALIFORNIA UNIV., RIVERSIDE. DEPT. OF ECONOMICS.
Cost-Benefit Analyses of Cost-Benefit Ana sis,
W76-11164 9-21

CALIFORNIA UNIV., RIVERSIDE. DEPT. OF ENTOMOLOGY.
Insect Growth Regulators for the Control Aquatic Midges,
W76-09997 9-18

Planting Pattern, Plant Population, Irrigati and Insect Interactions in Cotton.
W76-09998 9-18

CALIFORNIA UNIV., RIVERSIDE. DEPT. OF PLANT SCIENCES.
Ecological and Physiological Implications Greenbelt Irrigation,
W76-08840 9-17

CALIFORNIA UNIV., RIVERSIDE. DEPT. OF SOIL SCIENCE AND AGRICULTURAL ENGINEERING.
Nitrate Concentrations in Deep Soil Cores Related to Soil Profile Characteristics,
W76-00726 9-02

Surface Runoff in Dairies,
W76-03970 9-08

Soil Water Repellency and the Use of Nonion Surfactants,
W76-04001 9-09

olute Travel-Time Estimates for Tile-Drained elds: I. Theory,
76-05904 9-12 5B

olute Travel-Time Estimate for Tile-Drained elds: II. Application to Experimental Studies,
76-05905 9-12 5B

race Element Concentrations of Sewage eatment Plant Effluents and Sludges; Their teractions with Soils and Uptake by Plants,
76-06332 9-13 5B

rigation of Field Tomatoes and Measurement Soil Water Changes by Neutron Moderation ethods,
76-06793 9-13 3F

n the Differential Equation for the Equilibri- n Moisture Profile in Swelling Soil,
76-06925 9-14 2G

ate of Chloride and Water Movement in outhern California Soils,
76-08545 9-16 2G

Vater Quality in Irrigated Watersheds,
76-08679 9-16 5B

itrogen and Phosphorus Levels in Soils eneath Sewage Disposal Ponds,
76-09197 9-17 5A

LIFORNIA UNIV., RIVERSIDE. GRADUATE HOOL OF ADMINISTRATION.

he Economics of Geothermal Resources in e Imperial Valley: A Preliminary Analysis,
76-03959 9-08 3E

LIFORNIA UNIV., SAN DIEGO, LA JOLLA. T. OF GEOPHYSICS AND PLANETARY YSICS.

lode Tides,
76-00905 9-02 2L

epeated Profiling of Microstructure Lenses ith a Midwater Float,
76-10692 9-20 2L

LIFORNIA UNIV., SAN DIEGO, LA JOLLA. T. OF MARINE RESOURCES.

esearch on the Marine Food Chain.
76-08935 9-17 5C

hysiological Ecology of Gonyaulax Polyedra, Red Water Dinoflagellate Off Southern alifornia,
76-08936 9-17 5C

wo Blooms of Gymnodinium Splendens Lebour). A Large Naked Dinoflagellate,
76-08937 9-17 5C

hosphate Utilization by an Oceanic Diatom in hosphorus-Limited Chemostat Culture and in he Oligotrophic Waters of the Central North acific,
76-08938 9-17 5C

Dynamics of Phosphorus Cycling in the uphotic Waters of the Central North Pacific cean,
76-08939 9-17 5C

hotosynthetic Measurements in the Central orth Pacific: The Dark Loss of Carbon in 24- lour Incubations,
76-08940 9-17 5C

ilicic Acid Uptake and Incorporation by Natu- al Marine Phytoplankton Populations,
76-08941 9-17 5C

Primary Production and the Factors Controlling Phytoplankton Growth in the Antarctic Seas,
W76-08942 9-17 5C

Assay of Nitrate Reductase from Plasmolyzed Marine Phytoplankton,
W76-08943 9-17 5C

A Thermodynamic Model for Steady State Metabolism of Phytoplankton, Part I. Theory,
W76-08944 9-17 5C

A Thermodynamic Model for Steady State Metabolism of Phytoplankton, Part II. Light and Carbon Limited Growth,
W76-08945 9-17 5C

Chlorine Reactions with Seawater Constituents and the Inhibition on Photosynthesis of Natural Marine Phytoplankton,
W76-08946 9-17 5C

Effects of Copper on Natural Marine Phytoplankton Communities,
W76-08947 9-17 5C

The Replication of Biological Events in Enclosed Water Columns,
W76-08948 9-17 5C

Microplankton of the North Pacific Central Gyre. I. Population Structure and Abundance, June 1973,
W76-08949 9-17 5C

Nutrient Regeneration by Oceanic Zooplankton: A Comparison of Methods,
W76-08950 9-17 5C

Distribution, Morphometry, and Seasonal Biology of the Planktonic Copepods, Neocalanus Robustior and N. Gracilis, in the Pacific Ocean,
W76-08951 9-17 5C

Vitamins in the South Polar Seas, I. Distribution and Significance of Dissolved and Particulate Vitamin B 12, Thiamine, and Biotin in the Southern Indian Ocean,
W76-08952 9-17 5C

Leucothrix: Absence of Demonstrable Fixation of N2,
W76-08953 9-17 5C

Coccolith Sedimentation by Fecal Pellets: Laboratory Experiments and Field Observations,
W76-08954 9-17 5C

Amino Acid Uptake and Respiration by Marine Heterotrophs,
W76-08955 9-17 5C

Cycling of Organic Carbon in the Ocean: Use of Naturally-Occurring Radiocarbon as a Long and Short Term Tracer,
W76-08956 9-17 5C

Nutrient Cycling Between the Water Column and a Marine Sediment. I. Organic Carbon,
W76-08957 9-17 5C

Improved Methodology for ATP Determination in Marine Environments,
W76-08958 9-17 5C

Copepod Slick in the Northwest Pacific Ocean,
W76-08959 9-17 5C

Cruise Summary, A. Southern California Bight Studies (SCBS).
W76-08960 9-17 5C

Cruise Summary, B. Gulf of California Photobiology Cruise,
W76-08961 9-17 5C

CALIFORNIA UNIV., SANTA BARBARA.

Public Opinion and the Environment: Ecology, the Coastal Zone, and Public Policy,
W76-09035 9-17 6G

CALIFORNIA UNIV., SANTA BARBARA. DEPT. OF BIOLOGICAL SCIENCES.

Circulatory Adaptations to the Oxygen Minimum Layer in the Bathypelagic Mysid Gnathophausia ingens,
W76-09128 9-17 5C

Composition of the Oligochaete Fauna of Central Lake Michigan,
W76-11323 9-21 5C

CALIFORNIA UNIV., SANTA BARBARA. DEPT. OF ECONOMICS.

The Weibull Probability Assignment Technique: An Application to Benefit-Cost Analysis,
W76-01331 9-03 6A

Reassessment of the Cross-Florida Barge Canal: A Probability Approach,
W76-08228 9-16 4A

Economic Framework for Groundwater Quality Monitoring,
W76-10657 9-20 5G

CALIFORNIA UNIV., SANTA BARBARA. DEPT. OF MECHANICAL AND ENVIRONMENTAL ENGINEERING.

Finite Element Solutions for Unsteady and Unsaturated Flow in Porous Media,
W76-00177 9-01 2G

Finite Element Solutions to Two Groundwater Flow Problems - One Including Dispersion and the Other the Influence of Electro-Osmosis,
W76-03962 9-08 5B

Pollutant Movement Beneath Rivers,
W76-03963 9-08 5B

The Dispersion of Pollutants Beneath Open Channels,
W76-11443 9-21 5B

CALIFORNIA UNIV., SANTA BARBARA. DEPT. OF POLITICAL SCIENCE.

Legal-Political History of Water Resource Development in the Upper Colorado River Basin,
W76-02669 9-06 6E

Conflict and Coalition: Political Variables Underlying Water Resource Development in the Upper Colorado River Basin,
W76-07109 9-14 4A

CALIFORNIA UNIV., SANTA BARBARA. MARINE SCIENCE INST.

Oil Spill and Oil Pollution Reports November 1974 - February 1975,
W76-01872 9-04 5G

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W76-09896 9-18 5A

CALIFORNIA UNIV., SANTA CRUZ, COASTAL MARINE LAB.
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W76-11461 9-21 6G

CALIFORNIA UNIV., SANTA CRUZ. DEPT. OF ECONOMICS.
Corrective Taxes for Pollution Control: An Application of the Environmental Pricing and Standards Systems to Agriculture,
W76-06618 9-13 5G

CALIFORNIA UNIV., SANTA CRUZ. EARTH SCIENCES BOARD.
Comparative Discharges of Fresh and Waste Water Along the California Coast,
W76-01914 9-04 5B

CALSPAN CORP., BUFFALO, N.Y.
The Life Cycle of California Coastal Fog Onshore,
W76-01493 9-03 2B

Methods to Treat, Control and Monitor Spilled Hazardous Materials,
W76-01869 9-04 5G

Technology For Managing Spills On Land And Water,
W76-03595 9-08 5G

Thickening of Sewage Sludge with Quaternary Ammonium Compounds and Magnetic Fields,
W76-11266 9-21 5D

Evaluation of a Pneumatic Barrier for Oil Containment,
W76-11923 9-22 5G

CAMBRIDGE UNIV., (ENGLAND). DEPT. OF APPLIED BIOLOGY.
A Hele-Shaw Analog Study of the Seepage of Groundwater Resting on a Sloping Bed,
W76-00025 9-01 2F

Aquatic Herbicides and the Control of Water Weeds,
W76-01911 9-04 5G

The Calculation of Steady-State Water-Table Heights in Drained Soils by Means of the Finite-Element Method,
W76-03743 9-08 2G

CAMBRIDGE UNIV. (ENGLAND). DEPT. OF ENGINEERING.
A Contribution to the Study of Vortex Ripples,
W76-02419 9-05 8B

Transverse Forces on Vertical Cylinders in Waves,
W76-09583 9-18 8B

On Rolling-Grain Ripples,
W76-10917 9-20 2J

Dynamic Modelling and Control Applications in Water Quality Maintenance,
W76-11142 9-21 5G

CAMERINO UNIV. (ITALY). ISTITUTO DI IGIENE.
Presence of Insecticides in Surface Waters After Conditioning Treatment, (In Italian),
W76-13160 9-24 5F

CAMP DRESSER AND MCKEE, BOSTON, MASS.
The Awakened Interest in the Sewer Ordinance,
W76-02199 9-05 5G

CAMP, DRESSER AND MCKEE, INC., BOSTON, MASS.
Design of Water Treatment Facilities,
W76-03438 9-07 5F

Old Slow Sand + New Rapid Filtration - Sedimentation = Savings,
W76-05808 9-12 5F

Sludge Disposal Alternatives,
W76-06292 9-13 5E

Water Quality Planning Strategy,
W76-06439 9-13 5G

Advanced Waste Treatment Plant Features Nitrification,
W76-09020 9-17 5D

Wastewater Plant will Use no Chemicals for Sludge Conditioning,
W76-09161 9-17 5D

Wastewater Resources in North Central Texas,
W76-12652 9-23 5G

CAMPAIGN CLEAN WATER, CHARLESTON, W.VA.
Land Application of Treated Sewage in the Mountain State,
W76-11237 9-21 5D

CAMPBELL SOUP CO., CAMDEN, N. J.
Spray Irrigation of Polutry Processing Wastewater,
W76-08165 9-16 5D

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Land Treatment of Food Processing Wastewaters,
W76-08468 9-16 5E

CANADA CENTRE FOR INLAND WATER, BURLINGTON(ONTARIO).
Microbiology of Two-Stage Kraft Waste Treatment,
W76-04766 9-10 5D

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In Situ Colour Measurements on the Great Lakes,
W76-00885 9-02 5A

Decision to Control Eutrophication,
W76-01352 9-03 5G

A Simple Diffusion Model of the Mean Field Distribution of Soluble Materials in the Great Lakes,
W76-01476 9-03 5B

The Efficiency of Heavy Metal Removal by a Conventional Activated Sludge Treatment Plant,
W76-03306 9-07 5D

Metal Concentrations in the Sewage, Effluents, and Sludges of Some Southern Ontario Wastewater Treatment Plants,
W76-03343 9-07 5A

A Modified Procedure for the Determination of Nitrate in Sediments and Some Natural Waters,
W76-03706 9-08 5A

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W76-04155 9-09 2H

Canada Centre for Inland Waters, 1974.
W76-04258 9-09 5G

Automated Determinations of Dissolved O ganic Carbon in Lake Water,
W76-05047 9-11

Input-Output Models with Special Reference the Phosphorus Loading Concept in Limno gy,
W76-05464 9-11

Automated Dilution for Measurement Nitrate in Water,
W76-05594 9-12

Relationship Between Various Bacterial Pop lations and Coprostanol and Cholesterol,
W76-06336 9-13

Transmissometer Measurements of the Gr Lakes,
W76-06370 9-13

Horizontal Diffusion Characteristics in La Ontario,
W76-06929 9-14

A Test of the Hypothesis that Abio Phosphate Complexing Influences Phosphor Kinetics in Epilimnetic Lake Water,
W76-07429 9-14

High-Speed Liquid Chromatographic Clean of Environmental Samples Prior to the G Chromatographic Determination of Lindane,
W76-07701 9-15

Water Quality Criteria for Great Lakes Wat to be Used as Municipal and Industrial Wa Supplies,
W76-08363 9-16

Mercury in the Surficial Sediments of La Erie,
W76-08526 9-16

Forms of Phosphorus in the Surficial Se ments of Lake Erie,
W76-08527 9-16

Forms of Iron and Manganese in Lake E Waters,
W76-08528 9-16

Numerical Computations of Advective and D fusive Transports of Chloride in Lake Er 1970,
W76-08530 9-16

Computations of Physical Transport a Regeneration of Phosphorus in Lake Erie, F 1970,
W76-08531 9-16

Lake Erie and Its Basin,
W76-08723 9-16

Continuous Dynamical Computations of Wat Transports in Lake Erie for 1970,
W76-08724 9-16

Surficial Sediments of Lake Erie,
W76-08725 9-16

Rates of Accumulation of Phosphorus Forms Lake Erie Sediments,
W76-08726 9-16

Cultural Impact on the Geochemistry of Sed ments in Lake Erie,
W76-08727 9-16

Nutrient-Primary Production Relationships Central Lake Erie: A Simple Correlation A proach,
W76-08836 9-17

Temperature, Oxygen, and Nutrient Distribution Patterns in Lake Erie, 1970,
W76-09262 9-17 5B

Oxygen Depletion in the Central and Eastern Basins of Lake Erie, 1970,
W76-09263 9-17 5C

Verification of Numerical Models of Lake Ontario, III. Longterm Heat Transports,
W76-09783 9-18 2H

Lead Orthophosphates: III. Stabilities of Fluorophyromorphite and Bromopyromorphite at 25 C,
W76-09820 9-18 2K

Operational Model for Predicting the Movement of Oil in Canadian Navigable Waters,
W76-09908 9-18 5B

Potentiometric Determination of Low Levels of Simple and Total Cyanides,
W76-10030 9-19 5A

Delta-Amino Levulinic Acid Dehydratase Activity in Fish Blood as an Indicator of a Harmful Exposure to Lead,
W76-10338 9-19 5C

Interlaboratory Quality Control Study No. 5, Chromium, Iron, Molybdenum and Vanadium,
W76-10493 9-19 5A

Interlaboratory Quality Control Study No. 4, Arsenic, Cadmium, Cobalt, Mercury and Nickel,
W76-10495 9-19 5A

Exchange Flow Between Lake Ontario and Hamilton Harbour,
W76-10496 9-19 5B

Applicability of the Technicon Autoanalyzer I and II Systems for Shipboard Analysis of Great Lakes Water Samples,
W76-10497 9-19 5A

Automated Determination of Carbon in Natural Waters,
W76-10936 9-20 5A

Modified Curcumin and Dianthrimide Methods for the Determination of Boron in the Presence of High Levels of Nitrate and Organics,
W76-10937 9-20 5A

The Stratigraphy of Northern Lake Superior Late-Glacial and Postglacial Sediments.
W76-11289 9-21 2J

Generalized Profiles of Wind Speed, Temperature and Humidity,
W76-11304 9-21 2H

Helmholtz Resonance in Harbours of the Great Lakes,
W76-11306 9-21 2H

Bacteria and Phosphorus as Indicators of the Extent of a Large Sewage Spill in Lake Erie,
W76-11315 9-21 5A

A Simulation Model for Long-Term Forecasting of Waste Loadings from Population, Land Use, and Economic Activities in the Great Lakes Basin,
W76-11320 9-21 5B

Phytoplankton Biomass, Species Composition and Primary Production at a Nearshore and a Midlake Station of Lake Ontario During IFYGL,
W76-11426 9-21 5C

A Preliminary Study on the Occurrence and Distribution of Geofungi in Lake Ontario Near the Niagara River,
W76-11427 9-21 2H

Preliminary Energy Budget of Lake Ontario for the Period May Through November, 1972,
W76-11433 9-21 2H

Determination of the Aerodynamic Drag Coefficient from Wind Set-Up,
W76-11437 9-21 2H

Short Period Tides in Lake Ontario,
W76-11438 9-21 2H

Optical Properties of the Great Lakes,
W76-11440 9-21 2H

Viral Contamination of the Water Environment, an Underestimated Problem,
W76-11646 9-22 5C

Gas-Liquid Chromatographic Determination of 3-Trifluoromethyl-4-Nitrophenol in Natural Waters,
W76-12486 9-23 5A

Study on the Efficiency of Four Procedures for Enumerating Coliforms in Water,
W76-12897 9-24 5A

Emission of Sulfur from Lake Ontario Sediments,
W76-12987 9-24 2J

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W76-09594 9-18 5C

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W76-10509 9-20 5A

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W76-09033 9-17 4A

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W76-09891 9-18 5A

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W76-07344 9-14 6E

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W76-02058 9-05 7C

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W76-06662 9-13 7B

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W76-04102 9-09 2F

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W76-06121 9-12 5C

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W76-01310 9-03 2D

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W76-02553 9-06 7B

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W76-13159 9-24 5D

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W76-05317 9-11 5D

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W76-11459 9-21 5C

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W76-11261 9-21 5D

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W76-00598 9-02 5E

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W76-02291 9-05 5D

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W76-12961 9-24 6B

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W76-07015 9-14 5D

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Species in Three Ohio Lakes,
W76-08441 9-16 5

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River Discharges,
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Basin,
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Stratified Flow in the Beta Plane,
W76-03378 9-07 2

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face Water System via Multicell Approach,
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from Waste Cracking Catalyst,
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Fluids,
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W76-00891 9-02 2A

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W76-04688 9-10 2A

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W76-12000 9-22 4A

Recycle--Reuse, Infall--Outfall, Decisions Confront Science, Public,
W76-12001 9-22 5D

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W76-01618 9-04 6B

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W76-05697 9-12 5D

Coagulation of Textile Industry Effluents with Cationic Polyelectrolytes (Koagulacja sciekow przemyslu wlokienniczego przy uzyciu polielektrolitow kationowych),
W76-10836 9-20 5D

Auxiliary Agents Used in Textile Finishing as New Coagulants for Effluents (Srodki pomocnicze stosowane w wykonczalnictwie jako nowe koagulanty sciekow przemyslu wlokienniczego),
W76-11501 9-21 5D

Coagulation of Textile Industry Effluents with Fixative 'IS' (Proby koagulacji sciekow przemyslu wlokienniczego Utrwalaczem IS),
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W76-10944 9-20 5C

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W76-12922 9-24 5C

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W76-11542 9-21 5G

Organic Pollution in Ensenada Bay, Mexico,
W76-11587 9-21 5B

Computation of Lethal Concentrations,
W76-11711 9-22 5A

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W76-03729 9-08 2C

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ignificance of Cellular Nitrate Content in Natural Populations of Marine Phytoplankton rowing in Shipboard Cultures,
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An Automated Assay for the Determination of Nitrate Reductase in Marine Phytoplankton,
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Oxygen consumption in the Brown Trout, Salmo Trutta M. Fario L,
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Some Helminths of Bulinus Truncatus and Biomphalaria Alexandrina from the Irrigation System Near Cairo,
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The Biology of the Leech Myzobdella Lugubris Infesting Blue Crabs and Catfish,
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Use of Electrodialysis in the Water Recycling System of Viscose Production (Primenenie elektrodializa v sisteme vodooborota viskoznogo proizodstva),
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Installation for Sewage Treatment,
W76-01715 9-04 5D

Installation for Sewage Treatment,
W76-02211 9-05 5D

Combination Sewage Treatment and Cooling System,
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Chesapeake Corporation Operating Experience with a High Purity Oxygen Activated Sludge Waste Treatment System,
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95% BOD Removal Result of Fruit Plant Modifications,
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Chevron Main Pass Block 41 Oil Spill: Chemical and Biological Investigations,
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The Environmental Impact of an Offshore Oil Spill,
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Partitioning of Hydrocarbons Between the Atmosphere and Natural Waters,
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Wave Forces on Vertical Circular Cylinder,
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Selenium and Heavy Metals in Black Marlin,
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Regional Approaches to Law of the Sea: Latin America,
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Water Reuse and Recycle in the C(D)EHDED Bleach Sequence,
W76-11385 9-21 3E

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Evaluation of a 35-GPH Portable Desalination Plant and Conceptual Design of a 220-GPH Containerized Plant,
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W76-06219 9-13 5B

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Environmental Monitoring Through the use of Exposure Panels,
W76-07490 9-15 5A

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W76-03193 9-07 8F

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W76-05588 9-12 5D

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Trouble in Paradise,
W76-00625 9-02 5G

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W76-01118 9-03 2A

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Pumps: Application and Design Basics, Part II,
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A Review of Sewer Charge Experience in South Carolina,
W76-04512 9-10 5D

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W76-09369 9-17 5C

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W76-08229 9-16 7B

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W76-11230 9-21 5E

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W76-04514 9-10 5G

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W76-09766 9-18 5G

The Pollution Control Bond,
W76-09771 9-18 5G

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W76-03836 9-08 5D

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W76-05371 9-11 6B

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W76-05839 9-12 5D

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W76-05840 9-12 6B

How to Design Aerated Lagoon Systems to Meet 1977 Effluent Standards System Design,
W76-10512 9-20 5D

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Survival of Salmonellae, Total Coliforms and Fecal Coliforms in Swine Waste Lagoon Effluents,
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W76-01500 9-03 5B

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The Effect of In Vivo Chromium Exposure on Na/K- and Mg-ATPase Activity in Several Tissues of the Rainbow Trout (Salmo Gairdneri),
W76-10337 9-19 5C

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Investifation of Vertical Mixing in the Dispersion of Pollutants in Lake Erie,
W76-02152 9-05 5B

Numerical Solution to a Two-Dimensional Dispersion Equation,
W76-02153 9-05 5B

Criteria for the Use of Vertical Averaging in Great Lakes Dispersion Models,
W76-02154 9-05 5B

Criteria for the Use of Vertical Averaging in Environmental Dispersion Models,
W76-02155 9-05 2H

Criteria for the Use of Vertical Averaging in Great Lakes Dispersion Models,
W76-02156 9-05 2H

CLEVELAND STATE UNIV., OHIO. DEPT. OF CHEMICAL ENGINEERING.
Phosphorus Movement in Soils: Theoretical Aspects,
W76-05048 9-11 5B

Phosphorus Movement in Soils: Soil-Orthophosphate Reaction Kinetics,
W76-08672 9-16 5B

CLINTON BOGERT ASSOCIATES, FORT LEE, N.J.
Planning a Must for Groundwater Development,
W76-06273 9-13 4B

Combined Sewage Overflows - Frequency, Environmental Effects, and a Corrective Program,
W76-09741 9-18 5D

CLOISTERDALE FARMS, EPHRATA, PA.
24 Million Pounds of Opportunity,
W76-00477 9-01 5D

CLONTZ (J.R.) ASSOCIATES, TAMPA, FLA.
V-Notch Weir Aids in Metering Treated Effluents,
W76-03790 9-08 5A

CLOW CORP., FLORENCE, KY.
Ultraviolet Disinfection of Activated Sludge Effluent Discharging to Shellfish Waters,
W76-12862 9-24 5D

CLYDE AND PRATT, SALT LAKE CITY, UTAH.
Coal Mining, Development and Processing -- The Associated Water Problems,
W76-10727 9-20 6E

CLYDE RIVER PURIFICATION BOARD, GLASGOW (SCOTLAND).
The Control of Pollution of Groundwater,
W76-03815 9-08 5G

Impact of the Sewage Workers' Strike on the River Clyde,
W76-06281 9-13 5C

Steroids in Effluents,
W76-09696 9-18 5A

PCB Levels in Clyde Marine Sediments and Fauna,
W76-11589 9-21 5B

COAST GUARD RESEARCH AND DEVELOPMENT CENTER, GROTON, CONN.
Characterization of Slush Ice in the Great Lakes,
W76-01487 9-03 2C

Some Characteristics of the Beaufort Sea Shelf Current,
W76-03853 9-08 2L

Tar Ball Loadings on Golden Beach, Florida,
W76-10379 9-19 5B

Tar Ball Sampling in the Western North Atlantic,
W76-10380 9-19 5B

A Computer Simulation Technique for Oil Spills Off the New Jersey-Delaware Coastline,
W76-11940 9-22 5B

Predicted Oil Slick Movement from Various Locations Off the New Jersey-Delaware Coastline,
W76-12376 9-23 5B

High Seas Oil Containment Barrier Mooring System,
W76-12384 9-23 5G

COAST GUARD RESERVE, WASHINGTON, D.C. OFFICE OF RESEARCH AND DEVELOPMENT.
Coast Guard's Response to Spilled Oil,
W76-09915 9-18 5A

COAST GUARD, WASHINGTON, D.C.
Oil and Hazardous Substance Liability.
W76-04452 9-09 5G

Marine Sanitation Devices.
W76-04636 9-10 5G

Oil Pollution Regulations.
W76-04851 9-10 5G

Quantitative Estimates of Petroleum to the Oceans
W76-05137 9-11 5B

An Analysis of Oil Outflows Due to Tanker Accidents,
W76-09313 9-17 5B

Influx of Petroleum Hydrocarbons into the Ocean,
W76-09385 9-17 5G

Evaluation of Thin Film Oil Samplers,
W76-10381 9-19 5A

Deepwater Port Site Evaluation,
W76-10766 9-20 5G

Deepwater Ports: Licensing Procedures and Design Construction, Equipment and Operations,
W76-10767 9-20 5G

COAST GUARD, WASHINGTON, D.C. OFFICE OF MARINE ENVIRONMENT AND SYSTEMS.
Recommended Procedure for Developing Deepwater Ports Design Criteria,
W76-09907 9-18 5G

Chemical Hazards Response Information System, A Condensed Guide to Chemical Hazards,
W76-10047 9-19 5A

COAST GUARD, WASHINGTON, D.C. OFFICE OF RESEARCH AND DEVELOPMENT.
Oil-In-Water Content Monitor Developmental Program Summary,
W76-11941 9-22 5A

COASTAL ENGINEERING RESEARCH CENTER, FORT BELVOIR, VA.
Regime Equations and Tidal Inlets,
W76-01484 9-03 2L

Development of a Shallow-Water Wave Direction Gage,
W76-02399 9-05 2L

Results from the CERC Wave Measurement Program,
W76-02400 9-05 2L

Large Wave Tank Tests of Riprap Stability,
W76-06410 9-13 8B

Analysis and Interpretation of Littoral Environment Observation (Leo) and Profile Data Along the Western Panhandle Coast of Florida,
W76-06637 9-13 2L

Guidelines for Monitoring Shore Protection Structures in the Great Lakes.
W76-06922 9-14 8B

Laboratory Effects in Coastal Movable-Bed Models,
W76-10425 9-19 2L

An ERTS-1 Study of Coastal Features on the North Carolina Coast,
W76-13174 9-24 7B

Techniques in Evaluating Suitability of Borrow Material for Beach Nourishment,
W76-13175 9-24 8B

COASTAL PLAIN EXPERIMENT STATION, TIFTON, GA. DEPT. OF ENTOMOLOGY AND FISHERIES.
Water Quality in a Recirculating Raceway System for Fish Culture,
W76-10546 9-20 5G

COASTAL PLAINS CENTER FOR MARINE DEVELOPMENT SERVICES, WILMINGTON, N.C.
Report of the Conference on Marine Resources of the Coastal Plains States, December 11-12, 1975, Savannah, Georgia.
W76-09329 9-17 5G

COASTAL ZONE MANAGEMENT INST., SANDWICH, MASS.
Coastal Zone Management: The Process of Program Development,
W76-05204 9-11 6B

OASTAL ZONE RESOURCES CORP. /ILMINGTON, N. C.
A Study to Assess Goals for Uses and Management of Shoreline and Implications for Corps of Engineers Programs.
W76-06418 9-13 6B

OATE BURIAL VAULT, INC., WEST IILTON, OHIO. (ASSIGNEE)
Sewage Treatment System Including Effluent Evaporator,
W76-01541 9-04 5D

Aerobic Sewage Treatment System,
W76-04617 9-10 5D

OLD REGIONS RESEARCH AND NGINEERING LAB., FAIRBANKS, ALASKA.
Subarctic Plant Communities and Associated Litter and Soil Profiles in the Caribou Creek Research Watershed, Interior Alaska,
W76-06194 9-13 4D

OLD REGIONS RESEARCH AND NGINEERING LAB. HANOVER, N. H.
Compressibility Characteristics of Undisturbed Snow,
W76-00537 9-02 2C

Accumulating Snow to Augment the Fresh Water Supply at Barrow, Alaska,
W76-01323 9-03 2C

Applications of ERTS-1 Imagery to Terrestrial and Marine Environmental Analyses in Alaska,
W76-02049 9-05 7B

Evaluation of Ice Management Problems Associated with Operation of a Mechanical Ice Cutter on the Mississippi River,
W76-02396 9-05 8C

Measurements of the Dielectric Properties of Wet Snow Using a Microwave Technique,
W76-02398 9-05 2C

Brine Infiltration in the McMurdo Ice Shelf, McMurdo Sound, Antarctica,
W76-02707 9-06 2C

Land Disposal: State of the Art,
W76-03849 9-08 5E

Spline Approximation to the Freezing of Water in a Cylindrical Hole Drilled in an Ice Sheet,
W76-04105 9-09 2C

Analysis of the Freezeback of Water in a Cylindrical Borehole Drilled in an Ice Sheet,
W76-04106 9-09 2C

Simulated Snowdrift Patterns--Evaluation of Geometric Modeling Criteria for a Three Dimensional Structure,
W76-04313 9-09 2C

A Digital Computer Simulation of the Annual Snow and Soil Thermal Regimes at Barrow, Alaska,
W76-04674 9-10 2C

Gas Inclusions in the Antarctic Ice Sheet and Their Glaciological Significance,
W76-04972 9-10 2C

Characterization of Cold-Regions Terrain Using Airborne Laser Profilometry,
W76-05393 9-11 7B

Optical Properties of Salt Ice,
W76-05395 9-11 2C

Construction and Performance of the Hess Creek Earth Fill Dam, Livengood, Alaska,
W76-07085 9-14 8D

Isua, Greenland: Glacier Freezing Study,
W76-07789 9-15 2C

Arctic and Subarctic Environmental Analyses Utilizing ERTS-1 Imagery,
W76-08510 9-16 2C

Identification of Nuclei and Concentrations of Chemical Species in Snow Crystals Sampled at the South Pole,
W76-10696 9-20 2C

An Analysis of Water Flow in Dry Snow,
W76-11865 9-22 2C

Analysis of Hydrologic Response to Rain-on-Snow,
W76-11866 9-22 2C

Air Bubbler Systems to Suppress Ice,
W76-11874 9-22 2C

COLD REGIONS RESEARCH AND ENGINEERING LAB., HANOVER, N.H. APPLIED RESEARCH BRANCH.
Arching of Fragmented Ice Covers,
W76-08149 9-16 2C

COLD REGIONS RESEARCH AND ENGINEERING LAB., HANOVER, N. H. EXPERIMENTAL ENGINEERING DIV.
Prevention and Control of Culvert Icing, Summary Report on Studies FY 1966-70,
W76-06193 9-13 8A

COLD REGIONS RESEARCH AND ENGINEERING LAB., HANOVER, N.H., RESEARCH DIV.
Heat Transfer Characteristics of a Bubble-Induced Water Jet Impinging on an Ice Surface,
W76-12998 9-24 2C

COLD REGIONS RESEARCH AND ENGINEERING LABORATORY, HANOVER, N. H.
Ice Thickness Observations, North American Arctic and Subarctic, 1970-71, 1971-72,
W76-12182 9-23 2C

COLLEGE OF AGRICULTURE, PARBHANI (INDIA).
Quality of Well-Waters of Northern Madhya Pradesh,
W76-05146 9-11 4B

COLLEGE OF MARIN, KENTFIELD, CALIF.
A Study of the Effects of the San Francisco Oil Spill on Marine Life, Part II: Recruitment,
W76-00135 9-01 5C

COLLEGE OF PHYSICIANS OF PHILADELPHIA, PA.
The Water Supply of Rome,
W76-07819 9-15 4A

COLOGNE UNIV. (WEST GERMANY). ZOOLOGICAL INSTITUT.
The Importance of Dissolved Organic Compounds in Sea Water for the Nutrition of Anemonia Sulcata Pennant (Coelenterata),
W76-10071 9-19 5C

COLORADO DEPT. OF HEALTH, DENVER.
Colorado Water Quality Control Act.
W76-04371 9-09 5G

COLORADO SCHOOL OF MINES, GOLDEN. DEPT. OF CHEMISTRY.
Toxic Heavy Metals in Groundwater of a Portion of the Front Range Mineral Belt,
W76-00274 9-01 5A

COLORADO SCHOOL OF MINES, GOLDEN. DEPT. OF CHEMISTRY; AND COLORADO SCHOOL OF MINES, GOLDEN. DEPT. OF GEOCHEMISTRY.
Impact of Argo Tunnel Acid Mine Drainage, Clear Creek County, Colorado,
W76-06943 9-14 5G

The Relation Between Water Chemistry and Mineral Zonation in the Central City Mining District, Colorado,
W76-06955 9-14 5B

Toxic Heavy Metals in Ground Water of a Portion of the Front Range Mineral Belt,
W76-11105 9-21 5B

COLORADO STATE UNIV., FORT COLLINS.
Numerical Model of Flow in a Stream-Aquifer System,
W76-00882 9-02 2F

Determination of Urban Watershed Response Time,
W76-01339 9-03 4D

Water Quality Control in Mine Spoils, Upper Colorado River Basin,
W76-01870 9-04 5G

Water Resources Research on Forest and Rangelands in Arizona,
W76-02220 9-05 4A

Development and Testing of a Laser Rain Gage,
W76-02752 9-06 2B

Determining Optimal Well Discharge,
W76-03118 9-07 4B

Range and Deficit Analysis Using Markov Chains,
W76-03354 9-07 2H

Two-Dimensional Mass Dispersion in Rivers,
W76-04309 9-09 5B

Dispersion of Mass in Open-Channel Flow,
W76-04311 9-09 2J

Emory Oak (Quercus Emoryi) Litter Phenolics as Environmental Hazards for Aquatic Animals in Southeastern Arizona,
W76-06125 9-12 5B

Drainage Rates from a Vertical Column,
W76-06165 9-13 2F

Problems Under State Water Laws: Changes in Existing Water Rights,
W76-07233 9-14 6E

Land Application of Sewage Sludge, III. Nitrate Accumulation and Wheat Growth Resulting from Addition of Sewage Sludge and Wood Wastes to Soils,
W76-10841 9-20 5E

COLORADO STATE UNIV., FORT COLLINS. AFRICAN GRADUATE FELLOWSHIP PROGRAM.
Wheat Yield Models with Limited Soil Water,
W76-04559 9-10 3F

COLORADO STATE UNIV., FORT COLLINS. AGRICULTURAL EXTENSION SERVICE.
Feedlot Waste Disposal and Water Pollution,
W76-04419 9-09 5B

COLORADO STATE UNIV., FORT COLLINS. COLL. OF ENGINEERING.
The Geomorphic and Hydraulic Response of Rivers,
W76-02738 9-06 2E

COLORADO STATE UNIV., FORT COLLINS. DEPT. OF AGRICULTURAL.
Irrigation Reuse Systems--A Proposed New ASAE Engineering Practice,
W76-13016 9-24 3C

COLORADO STATE UNIV., FORT COLLINS. DEPT. OF AGRICULTURAL ENGINEERING.
Upconing of the Salt-Water--Fresh-Water Interface Beneath a Pumping Well,
W76-00295 9-01 4B

Salinity Policy for Colorado River Basin,
W76-00553 9-02 5G

Irrigation Method as a Determinant of Large Pore Persistence and Crust Strength of Cultivated Soils,
W76-00699 9-02 2G

Salinity Policy for Colorado River Basin,
W76-01126 9-03 5G

Potential of Mine and Mill Spoils for Water Quality Degradation,
W76-06949 9-14 5B

On Land Disposal of Liquid Organic Wastes Through Continuous Subsurface Injection,
W76-07203 9-14 5D

Vertical Flow of Air and Water with a Flux Boundary Condition,
W76-09251 9-17 2G

Surveillance in Water Quality Management,
W76-12148 9-22 5G

COLORADO STATE UNIV., FORT COLLINS. DEPT. OF AGRONOMY.
Salt Transport in Soil Profiles with Application to Irrigation Return Flow, The Dissolution and Transport of Gypsum in Soils,
W76-05836 9-12 5B

The Impact of Molybdenum-Enriched Irrigation Water on Agricultural Soils Near Brighton, Colorado,
W76-08675 9-16 5B

COLORADO STATE UNIV., FORT COLLINS. DEPT. OF AGRONOMY; AND COLORADO STATE UNIV., FORT COLLINS. DEPT. OF SOIL SCIENCES.
Soil Phosphorus Availability as Measured by Displaced Soil Solutions, Calcium-Chloride Extracts, Dilute-Acid Extracts, and Labile Phosphorus,
W76-00825 9-02 3C

COLORADO STATE UNIV., FORT COLLINS. DEPT. OF ATMOSPHERIC SCIENCE.
Satellite Support to the Hiplex Activities for 1975,
W76-06613 9-13 3B

COLORADO STATE UNIV., FORT COLLINS. DEPT. OF ATMOSPHERIC SCIENCES.
Dispersion of Pollutants,
W76-10907 9-20 5B

COLORADO STATE UNIV., FORT COLLINS. DEPT. OF BOTANY AND PLANT PATHOLOGY.
Production of Plants Conducive to Salt Tolerance,
W76-11494 9-21 3C

COLORADO STATE UNIV., FORT COLLINS. DEPT. OF CIVIL ENGINEERING.
Evaluation and Implementation of Urban Drainage Projects,
W76-00201 9-01 4A

Cavitation and Size Scale Effects for Orifices,
W76-00489 9-01 8B

Step-Drawdown Test Analysis by Computer,
W76-01300 9-03 4B

South Platte River Flow Correlations,
W76-01699 9-04 4A

Computing the Big Picture,
W76-02874 9-06 3D

Minimization of Combined Sewer Overflows by Large-Scale Mathematical Programming,
W76-02878 9-06 5D

Prediction of Imbibition in a Horizontal Column,
W76-02935 9-06 2G

South Platte River Flow Correlations,
W76-03117 9-07 4B

Analysis and Synthesis of Flood Control Measures,
W76-04308 9-09 4A

Analysis of Drought Characteristics by the Theory of Runs,
W76-04310 9-09 2E

Cattle Feedlot Wastewater Salinity,
W76-04429 9-09 5A

Precipitation Management for Reclamation of Overgrazed Areas in Arid and Semi-Arid Regions,
W76-05603 9-12 2B

Systematic Design of Legal Regulations for Optimal Surface -Groundwater Usage - Phase 2,
W76-06551 9-13 4B

Methodology for the Selection and Timing of Water Resources Projects to Promote National Economic Development,
W76-08091 9-15 6B

Development of Storm Drainage Cost Functions,
W76-08227 9-16 3D

Computer Estimates of Natural Recharge from Soil Moisture Data - High Plains of Colorado,
W76-09761 9-18 2F

Mathematical Modeling of Alluvial Channels,
W76-09968 9-18 8B

Riverbank Recessions for Power Plant Facilities,
W76-09973 9-18 8B

Modeling Sediment Transport in Hydraulic Structures,
W76-09975 9-18 2J

Response of South Platte to Effluent Limitations,
W76-11137 9-21 5B

Safety Factors for Riprap Protection,
W76-11856 9-22 8I

Equation of Infiltration with Compression and Counterflow Effects,
W76-11956 9-22 2G

Remote Sensing of Mississippi River Characteristics,
W76-12442 9-23 7I

COLORADO STATE UNIV. FORT COLLINS. DEPT. OF ECONOMICS.
Legal Problems and Solutions to Surface Ground-Water Management,
W76-00180 9-01 6I

Possible Impacts of Oil Shale Development on Land Resources,
W76-01691 9-04 5C

An Economic Analysis of Water Use in Colorado's Economy,
W76-05837 9-12 6I

The Development of Water Multiplier Impacts from Input-Output Analysis: An Empirical Example from Boulder, Larimer, and Weld Counties, Colorado,
W76-08100 9-15 6I

COLORADO STATE UNIV., FORT COLLINS. DEPT. OF ENVIRONMENTAL AND NATURAL RESOURCES LAW.
Legal Problems in the Acquisition of Suitable Water Supplies for Oil Shale Operations in Western Colorado,
W76-06940 9-14 3I

COLORADO STATE UNIV., FORT COLLINS. DEPT. OF FISHERY AND WILDLIFE BIOLOGY.
The Effect of Tannin on the Motility of Walleye (Stizostedion Vitreum) Spermatozoa,
W76-03773 9-08 5C

COLORADO STATE UNIV., FORT COLLINS, DEPT. OF FOREST AND WOOD SCIENCES.
A Timber-Water Simulation Model for Lodgepole Pine Watersheds in the Colorado Rockies,
W76-03167 9-07 4D

COLORADO STATE UNIV., FORT COLLINS. DEPT. OF MICROBIOLOGY.
Chemical and Microbiological Studies of the Middle Salt Lagoon, Barrow, Alaska,
W76-01159 9-03 5C

Ecological Ramifications of Silver Iodide Nucleating Agent Accumulation in a Semi-Arid Grasslands Environment,
W76-02665 9-06 3B

Fecal Coliform Pollution in an Agricultural Environment,
W76-04432 9-09 5B

Bioconcentration and Biotransfer of Aflatoxin,
W76-05169 9-11 5B

The Responses of Soils and Soil Microorganisms to Silver Iodide Weather Modification Agents,
W76-08670 9-16 2G

COLORADO STATE UNIV., FORT COLLINS. DEPT. OF STATISTICS.
Multivariate and Sequential Statistical Procedures in the Biological Assessment of Water Quality,
W76-06561 9-13 5A

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A Temperature-Stressed Stream Ecosystem Below a Hypolimnial Release Mountain Reservoir,
W76-06743 9-13 5C

COLORADO STATE UNIV., FORT COLLINS. ENGINEERING RESEARCH CENTER.
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W76-00518 9-02 2G

Crust Strength and Cracking: Part I. Strength,
W76-00522 9-02 2G

A Combined Model of Water Table and River Stage Evolution,
W76-06380 9-13 2A

Water and Air Movement in a Bounded Deep Homogeneous Soil,
W76-11695 9-22 2G

COLORADO STATE UNIV., FORT COLLINS. ENVIRONMENTAL RESOURCES CENTER.
Transmountain Water Diversion for the High Plains,
W76-00181 9-01 6D

Manual for Training in the Application of the Principles and Standards of the Water Resources Council.
W76-05348 9-11 9B

COLORADO STATE UNIV., FORT COLLINS. FLUID MECHANICS PROGRAM.
Wind-Tunnel Simulation of Atmospheric Flow and Dispersion,
W76-10908 9-20 5A

COLORADO STATE UNIV., FORT COLLINS. HUMAN FACTORS RESEARCH LAB.
Evaluation Report of the Training Program on Transfer of Technology..Training of Government Personnel in the Application of the Principles, Standards and Procedures for Planning of the Water Resources Council,
W76-05349 9-11 9B

COLORADO STATE UNIV., FORT COLLINS. HYDROLOGY AND WATER RESOURCES PROGRAM.
Regional Water Exchange for Drought Alleviation,
W76-05819 9-12 4A

COLORADO STATE UNIV., FORT COLLINS. NATURAL RESOURCE ECOLOGY LAB.
Evapotranspiration from a Shortgrass Prairie Subjected to Water and Nitrogen Treatments,
W76-11849 9-22 2D

COLORADO STATE UNIV., FORT COLLINS. TURFGRASS EXTENSION.
Salt Tolerance and Suitability of Various Grasses for Saline Roadsides,
W76-08764 9-17 3C

COLORADO UNIV., BOULDER.
Interdisciplinary Studies of Large Reservoirs in Africa,
W76-00065 9-01 4A

Efficiency of Pollution Taxation and Market Structure,
W76-03204 9-07 5G

Ion Exchange Removal of Inorganic and Organic Wastewater Constituents,
W76-12624 9-23 5D

COLORADO UNIV., BOULDER. DEPT. OF CHEMICAL ENGINEERING.
Engineering and Ecological Evaluation of Antitranspirants for Increasing Runoff in Colorado Watersheds,
W76-02368 9-05 3B

COLORADO UNIV., BOULDER. DEPT. OF CIVIL AND ENVIRONMENTAL ENGINEERING.
Lime-Induced Reactions in Municipal Wastewaters,
W76-05597 9-12 5D

COLORADO UNIV., BOULDER. DEPT. OF ENVIRONMENTAL, POPULATION, AND ORGANISMIC BIOLOGY.
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W76-10328 9-19 4C

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Continental Ice Sheets: Conditions for Growth,
W76-04100 9-09 2C

COLORADO UNIV., BOULDER. DEPT. OF GEOLOGICAL SCIENCES.
Removal of Dissolved Molybdenum from Wastewaters by Precipitates of Ferric Iron,
W76-01106 9-03 5D

Form, Genesis, and Deformation of Central California Wave-Cut Platforms,
W76-07552 9-15 2L

COLORADO UNIV., BOULDER. DEPT. OF GEOLOGICAL SCIENCES; AND COLORADO UNIV., BOULDER. INST. OF ARCTIC AND ALPINE RESEARCH.
Source, Transportation and Deposition of Debris on Arapaho Glacier, Front Range, Colorado, U.S.A.,
W76-07777 9-15 2C

COLORADO UNIV., BOULDER. INST. OF ARCTIC AND ALPINE RESEARCH.
Development of Methodology for Evaluation and Prediction of Avalanche Hazard in the San Juan Mountain Area of Southwestern Colorado,
W76-06605 9-13 2C

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A Uniform Measure of Subaerial Erosion,
W76-12191 9-23 2J

COLORADO UNIV., BOULDER. INST. OF ARCTIC AND ALPINE RESEARCH; AND COLORADO UNIV., BOULDER. DEPT. OF GEOLOGICAL SCIENCES.
Collapse of the Hudson Bay Ice Center and Glacio-Isostatic Rebound,
W76-05669 9-12 2C

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Discussion (Of, 'An Assessment of University Interdisciplinary Research: The Wisconsin River and the Lower Fraser River Water Quality Studies,' by A. H. J. Dorcey and I. K. Fox),
W76-00078 9-01 5G

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W76-06195 9-13 2C

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W76-09781 9-18 6F

A Selected Annotated Bibliography on Fish and Wildlife Implications of Missouri Basin Water Allocation,
W76-10825 9-20 4C

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W76-10826 9-20 4C

COLORADO UNIV., DENVER.
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W76-09733 9-18 2A

COLORADO WATER POLLUTION CONTROL COMMISSION, DENVER.
Colorado Standards for the Discharge of Wastes.
W76-04374 9-09 5G

COLORADO WATER QUALITY CONTROL COMMISSION, DENVER.
Colorado Regulations for the State Discharge Permit System.
W76-04372 9-09 5G

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W76-04373 9-09 5G

Colorado Regulations for Effluent Limitations; Treatment Works Site Approval Regulation; Storm Sewer Discharge Regulations.
W76-04375 9-09 2G

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W76-10017 9-19 5A

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Comment On: Geography and the Los Debate: Geographical Factors and the Patterns of Alignment,
W76-07345 9-14 6E

A New International Law for the Deep Seabed Regime,
W76-10726 9-20 6E

COMBUSTION ENGINEERING, INC., NEW YORK. (ASSIGNEE).
Separation of Emulsified Liquids,
W76-03507 9-08 5G

COMBUSTION POWER CO., INC., MENLO PARK, CALIF.
LSW-500 Disposal of Air Force Liquid Wastes,
W76-10258 9-19 5E

COMITATO NAZIONALE PER L'ENERGIA NUCLEARE, CASACCIA (ITALY). LABORATORIO RADIOATTIVITA AMBIENTALE.
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W76-05998 9-12 5A

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W76-05622 9-12 5A

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W76-08618 9-16 5A

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The Linkage between Chemical Pollution and Bacteriological Pollution in Coastal Zones. (Recherche D'Une Liaison Entre La Pollution Chimique et la Pollution Bacteriologique Dans Les Zones Littorales),
W76-12590 9-23 5B

COMMISSARIAT A L'ENERGIE ATOMIQUE, SACLAY (FRANCE). CENTRE D'ETUDES NUCLEAIRES; AND COMMISSARIAT A L'ENERGIE ATOMIQUE, SACLAY (FRANCE). DEPARTEMENT DE RECHERCHE ET ANALYSE.
Isotopic Study of Hail,
W76-05665 9-12 2B

COMMISSION OF THE EUROPEAN COMMUNITIES, BRUSSELS (BELGIUM); AND CENTRE D'ETUDE DE L'ENERGIE NUCLEAIRE, MOL (BELGIUM).
Contamination of Freshwater by Mn54 and Co60,
W76-05903 9-12 5C

COMMISSION OF THE EUROPEAN COMMUNITIES, ISPRA (ITALY). JOINT NUCLEAR RESEARCH CENTER.
On the Calculation of the Mean Residence Time in Monomictic Lakes,
W76-10704 9-20 2H

COMMISSION OF THE EUROPEAN COMMUNITIES, LUXEMBOURG. HEALTH PROTECTION DIRECTORATE.
Quality Control and Harmonization Programmes for the Assessment of Effects and the Measurement of Environmental Pollution in the European Communities,
W76-11613 9-21 5G

COMMITTEE ON COMMERCE (U. S. SENATE). COMMITTEE ON COMMERCE NATIONAL OCEAN POLICY STUDY.
National Ocean Policy: Priorities for the Future,
W76-10591 9-20 6E

COMMONWEALTH ASSOCIATES INC., JACKSON, MICH. 2H
Management of Groundwater Quality Data,
W76-10660 9-20 5A

COMMONWEALTH INDUSTRIAL GASES, LTD., SYDNEY (AUSTRALIA).
Treatment of Waste with Oxygen or Ozone.
W76-10212 9-19 5D

COMMONWEALTH SCEINTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, CANBERRA (AUSTRALIA). DIV. OF LAND USE RESEARCH.
Infiltration of Water into Soil,
W76-04132 9-09 2G

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, ASPENDALE (AUSTRALIA). DIV. OF ATMOSPHERIC PHYSICS.
Inclusion of Plant Moisture Status in Combination-Method Estimates of Pasture Evaporation,
W76-00027 9-01 2D

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, BELMONT (AUSTRALIA). DIV. OF TEXTILE INDUSTRY.
A Modified Raw-Wool Scouring System for Easier Effluent Treatment,
W76-08717 9-16 5D

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, CAMPBELL (AUSTRALIA); AND IMPERIAL CHEMICAL INDUSTRIES OF AUSTRALIA, CAMPBELL; AND NEW ZEALAND LTD., CAMPBELL (AUSTRALIA). (ASSIGNEES).
Filtration Process,
W76-10473 9-19 5D

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, CANBERRA, AUSTRALIA, DIV. OF APPLIED GEOMECHANICS.
Earth Pressure Observations on a Retaining Wall in Expansive Clay, Gougher Street Mail Exchange, Adelaide,
W76-08424 9-16 8D

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, CANBERRA (AUSTRALIA). DIV. OF ENTOMOLOGY.
The Effects of Size-Selection Predation and Environmental Variation on the Distribution and Abundance of a Chironomid, Paraborniella Tonnoiri Freeman,
W76-06130 9-12 2I

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, CANBERRA (AUSTRALIA). DIV. OF ENVIRONMENTAL MECHANICS.
Steady Infiltration form Buried, Surface, and Perched Point and Line Sources in Heterogeneous Soils: II. Flow Details and Discussion,
W76-00649 9-02 2G

A Note on the Use of the Philip Infiltration Equation,
W76-05411 9-11 2G

The Growth of Disturbances in Unstable Infiltration Flows,
W76-06398 9-13 2G

Stability Analysis of Infiltration,
W76-09588 9-18 2G

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, CANBERRA (AUSTRALIA). DIV. OF LAND USE RESEARCH.
Reuse of Effluent for Agricultural Purposes,
W76-01416 9-03 5D

Problems in the Programmed Optimisation of Hydrological Catchment Model,
W76-01420 9-03 2

Empirical Methods and Approximations in th Determination of Catchment Response,
W76-04141 9-09 4

Synthetic Input Data Time Series fo Catchment Model Testing,
W76-04144 9-09 2

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, CANBERRA (AUSTRALIA). DIV. OF PLANT INDUSTRY.
Use of Physical Process Models,
W76-04140 9-09 2

Coupled Soil Moisture, Heat and Water Vapou Transfers Under Simulated Fire Conditions,
W76-05410 9-11 2

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, CANBERRA (AUSTRALIA). DIV. OF SOILS.
Contact Materials for Laboratory Soil Wate Studies,
W76-01415 9-03 2

Some Observations on the Joss-Waldvogel Rainfall Disdrometer,
W76-10928 9-20 2

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, CLAYTON (AUSTRALIA). DIV. OF CHEMICAL PHYSICS.
A Water Conductivity Recorder,
W76-03453 9-07 5

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, DENILIQUIN (AUSTRALIA). DIV. OF LAND RESOURCES MANAGEMENT.
Comparison of Sheep and Cattle Grazing o Semiarid Grassland,
W76-10181 9-19 4

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, EPPING (AUSTRALIA), DIV. OF CLOUD PHYSICS.
Production of Secondary Ice Particles During the Growth of Graupel by Riming,
W76-06168 9-13 2B

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, GLEN OSMOND (AUSTRALIA). DIV. OF SOILS
The Use of Environmental Tritium to Estimate Recharge to a South-Australian Aquifer,
W76-00896 9-02 2F

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, GRIFFITH (AUSTRALIA). DIV. OF IRRIGATION RESEARCH.
The Influence of Local Advection on Evapo-Transpiration from Irrigated Rice in a Semi-Arid Region,
W76-00713 9-02 2D

Dilution and Decay of Aquatic Herbicides in Flowing Channels,
W76-00895 9-02 5B

Modelling Water Quality,
W76-04143 9-09 5B

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION,

OBART (AUSTRALIA). TASMANIAN EGIONAL LAB.
Mercury in Fish in the Derwent Estuary, Tasmania, and its Relation to the Position of the Fish in the Food Chain,
W76-00871 9-02 5A

OMMONWEALTH SCIENTIFIC AND DUSTRIAL RESEARCH ORGANIZATION, ELBOURNE (AUSTRALIA).
Econometric Model to Aid in Urban Planning Decisions,
W76-07232 9-14 6A

OMMONWEALTH SCIENTIFIC AND DUSTRIAL RESEARCH ORGANIZATION, ELBOURNE (AUSTRALIA). DIV. OF ILDING RESEARCH.
Some Systems Concepts for Urban Planning,
W76-01008 9-03 6A

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Muds, Slimes and Sludges,
W76-10008 9-19 5D

OMMONWEALTH SCIENTIFIC AND DUSTRIAL RESEARCH ORGANIZATION, ORDIALLOC (AUSTRALIA). DIV. OF TMOSPHERIC PHYSICS.
Evaporation from Catchments,
W76-04137 9-09 2D

OMMONWEALTH SCIENTIFIC AND NDUSTRIAL RESEARCH ORGANIZATION, ARKVILLE (AUSTRALIA). DIV. OF PROTEIN HEMISTRY.
Recycling of Lime-Sulphide Unhairing Liquors - I, Small-Scale Trials,
W76-08179 9-16 5D

OMMONWEALTH SCIENTIFIC AND NDUSTRIAL RESEARCH ORGANIZATION, T. LUCIA (AUSTRALIA). DIV. OF TROPICAL GRONOMY.
Water Stress Suspends Leaf Ageing,
W76-11934 9-22 2I

OMMONWEALTH SCIENTIFIC AND NDUSTRIAL RESEARCH ORGANIZATION, YDNEY (AUSTRALIA).
Thermal Transitions of Collagen From Fish Recovered From Different Depths,
W76-12760 9-24 5C

OMMONWEALTH SCIENTIFIC AND NDUSTRIAL RESEARCH ORGANIZATION, YDNEY (AUSTRALIA), DIV. OF CLOUD HYSICS.
The Growth Rates and Densities of Ice Crystals Between -3C and -21C,
W76-10697 9-20 2B

OMMONWEALTH SCIENTIFIC AND NDUSTRIAL RESEARCH ORGANIZATION, OWNSVILLE (AUSTRALIA). PASTORAL ESEARCH LAB.
The Annual Variation in Yield of Pastures in the Seasonally Dry Tropics of Queensland,
W76-06016 9-12 3F

OMMONWEALTH SCIENTIFIC AND NDUSTRIAL RESEARCH ORGANIZATION, VEMBLEY (AUSTRALIA). DIV. OF LAND ESEARCH MANAGEMENT.
Movement of Soil and Shallow Groundwater,
W76-04133 9-09 2G

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATION, WEMBLEY (AUSTRALIA). DIV. OF LAND RESOURCES MANAGEMENT.
Interaction of Water Potential and Temperature Effects on Germination of Three Semi-Arid Plant Species,
W76-10185 9-19 2I

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANIZATIONS, ST. LUCIA (AUSTRALIA), DIV. OF TROPICAL AGRONOMY.
Influence of Water Stress on Parameters Associated with Herbage Quality of Panicum Maximum Var. Trichoglume,
W76-02969 9-06 2I

COMMUNICABLE DISEASE CENTER, SAVANNAH, GA.
Water Management Planning for Malaria Prevention in the Damodar Valley, India,
W76-02432 9-05 5G

COMMUNICATIONS RESEARCH CENTRE, OTTAWA (ONTARIO).
Application of Radar Techniques to Ice and Snow Studies,
W76-05385 9-11 7B

COMPAGNIE FRANCAISE DES PETROLES, PARIS (FRANCE). DEPT. OF LAW.
Compensation for Oil Pollution Damage Resulting from Exploration and Exploitation of Hydrocarbons in the Seabed,
W76-04333 9-09 6E

COMPAGNIE GENERALE POUR LES DEVELOPPEMENTS OPERATIONNELLS DES RICHESSES SOUS-MARINES, PARIS (FRANCE). (ASSIGNEE)
Anti-Heave Protective System,
W76-04264 9-09 8B

COMPAGNIE INTERCOMMUNALE BRUXELLOISE DES EAUX (BELGIUM).
Techniques for Dispersing and Dissolving Ozone in Water/Part I,
W76-07035 9-14 5F

COMPLEX INST. OF NATURAL SCIENCES, NUKUS (USSR). KARAKALPAK DIV.
Microflora of the Waters of one of the Underground Springs of the Karakalpak ASSR, (In Russian),
W76-07280 9-14 5B

COMPUTERIZED POLLUTION ABATEMENT CORP., LEICESTER, N. Y.
Treatment of Photographic Ferrocyanide-Type Bleach Solutions for Reuse and Disposal,
W76-08472 9-16 5D

COMPUTING CENTER FOR UNIVERSITIES, BUDAPEST (HUNGARY).
A Stochastic Programming Model Applied to Water Resources Management,
W76-11144 9-21 4A

CONE MILLS CORP., GREENSBORO, N.C.
Treating Dye Wastewater,
W76-01629 9-04 5D

CONFERENCE BOARD, INC., NEW YORK.
The Economics of Clean Water. Volume III. Industry Expenditures for Water Pollution Abatement.
W76-05951 9-12 5G

CONFLOW IRRIGATION SYSTEMS, SAN DIEGO, CALIF. (ASSIGNEE).
Irrigation Systems,
W76-02258 9-05 3F

CONNECTICUT AGRICULTURAL EXPERIMENT STATION, NEW HAVEN.
Linear Dispersion in Finite Columns,
W76-02921 9-06 2G

Water Chemistry and Fertility of Twenty-Three Connecticut Lakes,
W76-06207 9-13 5C

Phosphate Sorption Characteristics of Soils Treated with Domestic Waste Water,
W76-06330 9-13 5B

Determination of Soil-Water Diffusivity for Anisotropic Stratified Soils,
W76-07767 9-15 2G

Capillary Hysteresis and the Relationship Between Drying and Wetting Curves,
W76-10914 9-20 2G

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A Note on the Moisture Diffusivity of Saturated Swelling Systems from Desorption Experiments,
W76-01852 9-04 2G

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Plant Nutrient Budgets and Waste Disposal,
W76-04416 9-09 5C

CONNECTICUT AGRICULTURAL EXPERIMENT STATION, STORRS. DEPT. OF SOIL AND WATER.
Solute Dispersion in Saturated Soil Columns,
W76-12986 9-24 5B

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An Investigation of Suspended Material Concentrations in Eastern Long Island Sound,
W76-06381 9-13 2L

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W76-00907 9-02 2L

CONNECTICUT UNIV., NOANK. MARINE RESEARCH LAB.
Thermal Effects on the Microbiology and Chemistry of the Connecticut River-A Summary,
W76-02014 9-05 5C

The Effect of Temperature and Salinity on the Heart Beat of Crassostrea Verginica,
W76-03029 9-07 5C

CONNECTICUT UNIV., STORRS.
A Perspective for Connecticut,
W76-04417 9-09 5B

Physical Growth and Behavioral Development of Mice Receiving Chlorine and Fluorine,
W76-10551 9-20 5C

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W76-12679 9-24 5D

CONNECTICUT UNIV., STORRS. DEPT. OF AGRICULTURAL ENGINEERING.
Animal Waste and Nitrate Movement Through Soil,
W76-12362 9-23 5B

CONNECTICUT UNIV., STORRS. DEPT. OF ANIMAL SCIENCE.
Pollution Abatement of Poultry Manure BY Maxi-Mixing Method,
W76-07202 9-14 5D

CONNECTICUT UNIV., STORRS. DEPT. OF BOTANY.
Is a Reduced Level of Nitrogen Essential for Chlamydomonas Eugametos Mating in Nature,
W76-04584 9-10 5C

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W76-03135 9-07 5G

Chemical Analysis and Process Classification of Constituents of Effluents (Organic Nitrogen in Activated Carbon Effluents),
W76-04387 9-09 5A

Biotic Changes in the Willimantic/Shetucket River Associated with Improvements in Sewage Treatment,
W76-04388 9-09 5C

Inland Wetlands: Technical Definitions Directed Toward Emerging Policy Alternatives,
W76-04389 9-09 6B

Proceedings: Second Wetlands Conference (Held on January 9, 1974 at Storrs, Connecticut),
W76-07451 9-15 6E

Sedimentation Rates and Sediment Thickness in Lake Champlain,
W76-09759 9-18 2J

Identification of Stable Organic Compounds in Waste Effluent,
W76-11338 9-21 5A

The Role of Benthic Metabolism in a Bog Lake,
W76-11906 9-22 5C

CONNECTICUT UNIV., STORRS. SCHOOL OF LAW.
The Common Hertiage of Mankind as a Legal Concept,
W76-01952 9-04 6E

CONNECTICUT UNIVERSITY, STORRS.
Benthic Metabolism of a Soft-Water Lake,
W76-11907 9-22 5C

CONNELL/METCALF AND EDDY, CORAL GABLES, FLA.
Simulation of Deep Seepage to a Water Table,
W76-09245 9-17 2F

CONOCO NORTH SEA, INC., LONDON (ENGLAND).
New Log Data Give Better North Sea Well Completions,
W76-03524 9-08 4B

CONSERVATION FOUNDATION, WASHINGTON, D. C.
Rookery Bay Land Use Studies, Environmental Planning Strategies for the Development of a Mangrove Shoreline, Study No. 3, Estuarine Water Quality,
W76-05005 9-11 5G

Rookery Bay Land Use Studies, Environmental Planning Strategies for the Development of a Mangrove Shoreline, Study No. 5, Estuarine Biology,
W76-05006 9-11 5G

Rookery Bay Land Use Studies, Environmental Planning Strategies for the Development of a Mangrove Shoreline, Study No. 7, Policy and Regulatory Dimensions,
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The Discharge Permit Program Under the Federal Water Pollution Control Act of 1972--Improvement of Water Quality Through the Regulation of Discharges from Industrial Facilities,
W76-04624 9-10 5G

CONSOLIDATED PAPER, INC., WISCONSIN RAPIDS.
Coating Reclaim at Consolidated Papers, Inc., Wisconsin Rapids Division,
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CONSORTIUM OF UNIVERSITIES FOR WATER RESEARCH, MONTREAL (QUEBEC).
Analytical Approach in the Evaluation of Biological Damage Resulting from Spilled Oil,
W76-05153 9-11 5C

CONSTRUCTION ENGINEERING RESEARCH LAB. (ARMY), CHAMPAIGN, ILL.
Evaluation of Bentonite Clay for Waterproofing Foundation Walls Below Grade,
W76-08427 9-16 8D

CONSTRUCTION ESTIMATING, INC., WEST HARTFORD, CONN.
Optimum Size of Equipment,
W76-03161 9-07 8G

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Construction Safety in Waterworks,
W76-11651 9-22 5I

CONSULTANCY SERVICES LTD. (ENGLAND). ENVIRONMENTAL CONTROL.
Some Trends in Industrial Water and Waste Management,
W76-02429 9-05 5I

CONTINENTAL OIL CO., PONCA CITY, OKLA. (ASSIGNEE).
Method for Detecting and Locating Water Producing Zones and/or Water Thief Zones in Subterranean Formations,
W76-07448 9-14 4B

CONTINENTAL OIL CO., PONCA CITY, OKLA. RESEARCH AND DEVELOPMENT DEPT.
The Determination of Total Mercury at the Part Per Billion Level in Soils, Ores, and Organic Materials,
W76-02887 9-06 5A

CONWED CORP., ST. PAUL, MINN. (ASSIGNEE).
Apparatus for Removing Oil From Water,
W76-02608 9-06 5G

COOK COLL., NEW BRUNSWICK, N. J. DEPT. OF ENTOMOLOGY AND ECONOMIC ZOOLOGY.
Light, Nitrogen, and Phosphorus Limitation of Edaphic Algae in a Delaware Salt Marsh,
W76-01149 9-03 5C

COPENHAGEN UNIV. (DENMARK). FRESHWATER BIOLOGICAL LAB.
An Ignition Method for Determination of Total Phosphorus in Lake Sediments,
W76-08346 9-16 5A

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Chemical Analysis of Trace Elements in Iceland Geysirs with Remarks on Mastigocladus Laminosus Cohn,
W76-01912 9-04 5A

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The Distribution of Particulate Matter in a Northwest African Coastal Upwelling Area,
W76-03888 9-08 2L

A Spectral Light Absorption Meter for Measurements in the Sea,
W76-05680 9-12 7B

Vertical Mixing Characteristics in the Thermocline and Hypolimnion Regions of Lake Ontario,
W76-11308 9-21 2H

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A Red Bloom in Horn So near Lemvig (N. W. Jutland), Caused by the Dinoflagellate Oxyrhis Marina, (In Danish),
W76-12264 9-23 5C

COPENHAGEN UNIV., HILLEROD (DENMARK). FRESHWATER BIOLOGICAL LAB.
Nitrogen and Phosphorus Budgets and the Role of Sediments in Six Shallow Danish Lakes,
W76-04588 9-10 5C

ORNELL UNIV., AGRICULTURAL XPERIMENT STATION, ITHACA, N. Y. DEPT. F AGRONOMY.
Soil-Geomorphic Relationships in a First-Order Valley in Central New York,
W76-01855 9-04 2G

ORNELL UNIV., ITHACA, N.Y.
Management of the International Great Lakes,
W76-01358 9-03 6E

Structure of Liquid Water. III. Thermodynamic Properties of Liquid Deuterium Oxide,
W76-02505 9-06 1A

A Note on Optimal Taxation of Environmental Spillovers,
W76-03202 9-07 5G

The Precipitation Chemistry of Western New York State: A Meteorological Interpretation,
W76-06815 9-14 2K

A Critical Study of Flood Protection Planning in the Susquehanna River Basin: 1936-1972,
W76-08846 9-17 6F

Utilization of Stream-Borne Phosphorus by Cayuga Lake Phytoplankton,
W76-11108 9-21 5C

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Marginal Pollution Analysis for Long Rage Forecasts,
W76-11127 9-21 5G

'ORNELL UNIV., ITHACA, N.Y. COLL. OF ENGINEERING.
More on an Approximate Solution for Non-linear Diffusion,
W76-00740 9-02 2G

Planning the Location and Capacity of Flood Control Structures,
W76-12156 9-23 4A

CORNELL UNIV., ITHACA, N.Y. DEPT. OF AGRICULTURAL ENGINEERING.
Principles of Nutrient Control for Agricultural Wastewaters,
W76-00431 9-01 5B

Evaluation of Methods for the Analysis of Physical, Chemical and Biochemical Properties of Poultry Wastewaters,
W76-00442 9-01 5D

Irrigated Agricultural Production Response to Constraints in Energy-Related Inputs.
W76-04562 9-10 3F

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Some Observations Concerning Preparation and Storage of Stream Samples for Dissolved Inorganic Phosphate Analysis,
W76-00538 9-02 5A

Geomorphology of a Glaciated First-order Valley in South Central New York,
W76-01469 9-03 2J

Nitrogen and Phosphorus Losses from Winter Disposal of Dairy Manure,
W76-08159 9-16 5C

Oxygen Relationships in a Soil Treated with Sewage Effluent,
W76-08231 9-16 5D

Transport of Water and Heat in a Frozen Permeameter,
W76-10713 9-20 2G

CORNELL UNIV., ITHACA, N.Y. DEPT. OF CHEMISTRY.
Multielement Analysis of Sludge Samples by Instrumental Neutron Activation Analysis,
W76-03319 9-07 5A

CORNELL UNIV., ITHACA, N. Y. DEPT. OF CIVIL AND AGRICULTURAL ENGINEERING.
Land Use and Water Quality in New York Rivers,
W76-08133 9-16 5B

CORNELL UNIV., ITHACA, N.Y. DEPT. OF CIVIL AND ENVIRONMENTAL ENGINEERING.
Influence of Land Development and Land Use Patterns on Water Quality,
W76-02637 9-06 5B

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Mites on Soybeans: Moisture and Temperature Relations,
W76-11604 9-21 3F

CORNELL UNIV., ITHACA, N. Y. DEPT. OF ENVIRONMENTAL ENGINEERING.
Least Cost Design of Activated Sludge Systems,
W76-09638 9-18 5D

Administration - Systems Analysis, (Literature Review),
W76-12926 9-24 5G

CORNELL UNIV., ITHACA, N. Y. DEPT. OF NATURAL RESOURCES.
Responses of Planktonic Cladocerans to Heated Waters,
W76-03476 9-07 5C

Owasco Lake and its Watershed, a Summary Report With Two Appendices and Maps,
W76-06751 9-13 5C

An Historical Perspective of Nutrient Inputs and Trophic States as Deduced from Cayuga Lake Sediments,
W76-12463 9-23 5C

CORNELL UNIV., ITHACA, N.Y. DEPT. OF POULTRY AND SCIENCE.
Systems and Situations for Handling Poultry Wastes,
W76-00920 9-02 5D

CORNELL UNIV., ITHACA, N. Y. DEPT. OF POULTRY SCIENCE.
Surmounting the Poultry Waste Problem,
W76-12348 9-23 5D

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Evaluating the Impact of Structurally Interrupted Flood Plain Flows,
W76-01808 9-04 4A

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On the Minimum Size of Natural-Draft Dry Cooling Towers for Large Power Plants,
W76-01488 9-03 8A

Scaling Law for Dry Cooling Towers with Combined Mechanical and Natural Draft,
W76-01490 9-03 8A

CORNELL UNIV., ITHACA, N.Y. PESTICIDE RESIDUE LAB.
Flame Retardant Release from Fabrics During Laundering and Their Toxicity to Fish,
W76-00340 9-01 5C

CORNELL UNIV., ITHACA, N. Y. PROGRAM ON SCIENCE, TECHNOLOGY AND SOCIETY.
A Proposed Methodology for Assessing Alternative Technologies,
W76-13049 9-24 6G

CORNELL UNIV., ITHACA, N.Y. SCHOOL OF CIVIL AND ENVIRONMENTAL ENGINEERING.
A Theory for Local Evaporation (or Heat Transfer) from Rough and Smooth Surfaces at Ground Level,
W76-00560 9-02 2D

Administration: Systems Analysis, (Literature Review),
W76-03159 9-07 6A

Derivation and Evaluation of Reservoir Rule Curves,
W76-04014 9-09 4A

An Evaluation of Some Linear Decision Rules in Chance-Constrained Models for Reservoir Planning and Operation,
W76-04934 9-10 4A

Optimal Groundwater Quality Management: Well Injection of Waste Waters,
W76-05507 9-12 5B

Cooperative Management and Development of International River Basins,
W76-06428 9-13 4A

Transient Water Quality Modeling in Streams,
W76-06433 9-13 5B

Steady Stratified Circulation in a Cavity,
W76-08136 9-16 2H

Transient Water Quality Modeling in Streams,
W76-08730 9-16 5B

Optimal Ground Water Quality Management: Well Injection of Waste Waters,
W76-09511 9-18 5D

Optimal Management of the Subsurface Environment: Parameter Identification,
W76-10613 9-20 5B

Remote Sensing of Ground and Surface Water Contamination by Leachate from Landfill,
W76-10666 9-20 5A

Hydrologic Aspects of Flood Management in the Chemung River Basin,
W76-11106 9-21 2E

The Determination of Regional Evapotranspiration by Means of Standard Meteorological Data,
W76-11110 9-21 2D

CORNELL UNIV., ITHACA, N. Y. SECTION OF ECOLOGY AND SYSTEMATICS.
Nutrient Flux and Cycling in Freshwater Ecosystems,
W76-10287 9-19 5C

CORNELL UNIV., ITHACA, N. Y. WATER RESOURCES AND MARINE SCIENCES CENTER.
Management of the Biological Resources of the Lake Ontario Basin,
W76-02617 9-06 6B

Government Agency Efforts in Quality of Life Impacts,
W76-05356 9-11 6B

CORPS OF ENGINEERS, BALTIMORE, MD.
Cowanesque Lake, Cowanesque River, Tioga County, Pennsylvania, (Final Environmental Impact Statement).
W76-03923 9-08 8A

CORPS OF ENGINEERS, NEW YORK. NORTH ATLANTIC DIV.
North Atlantic Regional Water Resources Study,
W76-00072 9-01 6B

CORPS OF ENGINEERS, NEW YORK. NORTHEASTERN U.S. WATER SUPPLY STUDY.
Water Supply for the Greater New York Metropolitan Area,
W76-10983 9-20 6B

CORPS OF ENGINEERS, OMAHA, NEBR.
Flood Plain Information: Cache La Poudre River, Colorado, Volume II, Greeley, Weld County.
W76-03462 9-07 4A

CORPS OF ENGINEERS, SAN FRANCISCO, CALIF. SOUTH PACIFIC DIV.
Discussion (Of, 'Corps Urban Planning In St. Louis-Maline Creek: An Interdisciplinary Effort,' by E.D. Rahubka, et al.),
W76-00075 9-01 3D

California Coastal Processes Study,
W76-02045 9-05 7B

CORPS OF ENGINEERS, WALTHAM, MASS. NEW ENGLAND DIV.
Flood Plain Information: Still and Mad Rivers, Town of Winchester, Connecticut.
W76-06284 9-13 4A

Flood Plain Information: Salmon Brook, East Branch and West Branch, Granby and E. Granby, Connecticut.
W76-06358 9-13 4A

The Use of ERTS Imagery in Reservoir Management and Operation,
W76-08537 9-16 4A

CORPS OF ENGINEERS, WALTHAN, MASS. NEW ENGLAND DIV.
A Real Time Data Acquisition System by Satellite Relay,
W76-02035 9-05 7B

CORPS OF ENGINEERS, WASHINGTON, D.C.
Disposal of Dredged Material in Navigable or Ocean Waters.
W76-02099 9-05 5E

Planning Assistance to States (To Aid in Preparation of Comprehensive Plans for Water and Related Resources).
W76-03605 9-08 6B

Permits of Activities in Navigable Waters or Ocean Waters.
W76-04441 9-09 5G

Civil Works Projects: Lakeshore Management.
W76-04450 9-09 6E

Our Troubled Waterways,
W76-04632 9-10 5G

Civil Works Water Resource Project (Seaplane Landing Areas).
W76-04857 9-10 6E

Design Criteria for Dam and Lake Projects.
W76-04863 9-10 8A

Perspectives on the Army Engineers Water Management Mission,
W76-05211 9-11 6E

Evaluation of Economic Benefits for Flood Control and Water Resource Planning.
W76-06083 9-12 4A

Review of NPDES Permits.
W76-06837 9-14 5G

Framework and River Basin Study Programs, Level A and Level B Studies.
W76-07858 9-15 6E

Navigation of Restricted Areas.
W76-07859 9-15 6E

CORROSION ENGINEERING, ST. ALBERT, (ALBERTA).
Corrosion Control--Just Another Cost.
W76-00407 9-01 8G

COSGROVE (W. J.) AND ASSOCIATES, INC., MONTREAL (QUEBEC).
Water Quality and the Textile Industry,
W76-05292 9-11 5D

COSTRUZIONI BATTELLI DISINQUINANTI S. P. A., ROME (ITALY). (ASSIGNEE).
Vessel for Removing Liquid Contaminants from the Surface of a Water Body,
W76-02611 9-06 5G

COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH, PRETORIA (SOUTH AFRICA). NATURAL ISOTOPES DIV.
Natural Isotopes in Surface and Groundwater from Argentina,
W76-06185 9-13 2F

COUNCIL ON ENVIRONMENTAL QUALITY, WASHINGTON, D.C.
National Oil and Hazardous Substances Pollution Contingency Plan.
W76-01399 9-03 5G

Public Perception of Pollution Control,
W76-07690 9-15 5G

OCS Oil and Gas - An Environmental Assessment. A Report to the President by the Council on Environmental Quality, Volume 1.
W76-11947 9-22 6G

OCS Oil and Gas - An Environmental Assessment. A Report to the President by the Council on Environmental Quality, Volume 2, (Appenodices).
W76-11948 9-22 6G

COWICONSULT LTD., COPENHAGEN (DENMARK).
Groundwater Study of a Volcanic Area Near Bandung, Java, Indonesia,
W76-05914 9-12 4B

CRAIOVA UNIV (RUMANIA).
The Hyporheic Fauna in the Catchment of the Oltetz-River, (In German),
W76-07305 9-14 2I

CRAWFORD AND RUSSEL, INC., STAMFORD, CONN.
Present and Future Requirements of the Chlor-Alkali Industry for Effective Pollution Control,
W76-03497 9-07 5D

CREPACO, INC., CHICAGO, ILL.
New Waste Water Practices in Dairy Plants,
W76-01647 9-04 3E

CROMPTON AND KNOWLES CORP., GIBRALTAR, PA. DYES AND CHEMICALS DIV.
Control System Treats Dye Plant Brine Waste,
W76-04054 9-09 5D

CROMPTON AND KNOWLES CORP., WORCESTER, MASS.
Biological Treatment of Dyes,
W76-05737 9-12 5D

CROWN ZELLERBACH CORP., CAMAS, WASH.
Status of Water Pollution Control in the Soviet Union,
W76-05714 9-12 5G

Environmental and Social Factors (in the Paper Industry),
W76-10861 9-20 5G

CROWN ZELLERBACH CORP., CAMAS, WASH. ENVIRONMENTAL SERVICES DIV.
The Status of Water Pollution Control in the Soviet Union, (First Part),
W76-05483 9-11 5D

The Status of Water Pollution Control in the Soviet Union, (Second Part),
W76-05484 9-11 5D

CULP, WESNER, CULP-CLEAN WATER CONSULTANTS, EL DORADO HILLS, CALIF.
Transport of Concentrates and Sludges,
W76-11660 9-22 5E

CULTURE CENTRE OF ALGAE, PROTOZOA, CAMBRIDGE (ENGLAND).
Survival of Escherichia Coli in Stream Water in Relation to Carbon Dioxide and Plant Photosynthesis,
W76-05628 9-12 5C

D'APPOLONIA (E.) CONSULTING ENGINEERS, INC., PITTSBURGH, PA.
Engineering, Environmental and Economic Planning for Coal Refuse Disposal,
W76-06947 9-14 5G

DACCA UNIV. (BANGLADESH). DEPT. OF ZOOLOGY.
Limnoplankton of Some Inland Waters of Dacca City,
W76-09400 9-17 5C

DACY (G. H.) ASSOCIATES, INC., MIAMI, FLA.
Reverse Osmosis Plant Helps City Cope with Diminishing Groundwater Supply,
W76-05779 9-12 5F

DAEDALEAN ASSOCIATES, INC., WOODBINE, MD. SPRINGLAKE RESEARCH CENTER.
Evaluation of Membrane Oil Pollution Prevention System Research,
W76-12388 9-23 5G

DAHOMEY UNIV., PORTO NOVO. BOTANY LAB.
The Impact of Salt Manufacturing on Mangrove Vegetation and the Geomorphology in Lower-Dahomey, (In French),
W76-05113 9-11 4C

DAICEL LTD., OSAKA (JAPAN). (ASSIGNEE).
Supported Semi-Permeable Membranes,
W76-09863 9-18 3A

Semipermeable Membrane and Process for the Preparation Thereof,
W76-09864 9-18 3A

ICEL, LTD., TOKYO (JAPAN). (ASSIGNEE).
eparator,
/76-13148 9-24 5F

IKYO OIL CO. LTD., TOKYO (JAPAN).
SIGNEE).
rocess for Treating Waste Water Effluent
laving Odours,
/76-00596 9-02 5D

KAR UNIV. (SENEGAL). FACULTY OF
DICINE AND PHARMACY.
tudies on the Activity of a Sodium
lypochlorite Solution on Vibrio Cholerae Bio-
ype et tor for Drinking Water Sterilization,
/76-01465 9-03 5D

KOTA STATE COLL., MADISON.
Evaluation of a Recreational Lake Rehabilita-
on Project,
/76-00379 9-01 5A

LHOUSIE UNIV., HALIFAX (NOVA
OTIA). DEPT. OF BIOLOGY.
tudies on the Effects of Temperature on Egg
aying of Three Species of Calanoid Copepods
n the Laboratory (Acartia Tonsa, Temora Lon-
icornis, Pseudocalanus Elongatus),
/76-01927 9-04 5C

LHOUSIE UNIV., HALIFAX (NOVA
OTIA). DEPT. OF OCEANOGRAPHY.
The Resonant Instabilities of Long Waves
Obliquely Incident on a Beach,
/76-04300 9-09 2L

Upwelling Along the Yarmouth Shore of Nova
Scotia,
/76-06688 9-13 2L

Nitrogen Utilization During Spring Blooms of
Marine Phytoplankton in Bedford Basin, Nova
Scotia, Canada,
/76-08691 9-16 5C

LHOUSIE UNIV., HALIFAX (NOVA
OTIA). LAW SCHOOL.
A Critical Evaluation of the Nova Scotia En-
vironmental Protection Act,
/76-07365 9-14 5G

LLAS RECLAMATION RESEARCH
NTER, TEX.
Municipal Wastewater Reclamation--An Indus-
rial Water Supply,
/76-05318 9-11 5D

LLAS WATER RECLAMATION RESEARCH
NTER, TEX.
The Removal of Metals from Wastewaters by
Chemical Treatment and Filtration,
/76-11271 9-21 5D

Water Reuse Research,
/76-11272 9-21 5D

LLAS WATER UTILITIES DEPT., TEX.
Dallas Rate Survey.
/76-01601 9-04 6C

Management Improvements Cut Costs,
/76-04533 9-10 5D

MES AND MOORE, ATLANTA, GA.
The Legal Requirement for the Assessment of
Inadvertent Weather Modification - An En-
gineering Viewpoint,
/76-10912 9-20 3B

MES AND MOORE, BETHESDA, MD.
Time-Dependent Mass Dispersion in Natural
Streams,
/76-10436 9-19 5B

DAMES AND MOORE, BOCA RATON, FLA.
Aquifer Evaluation Using Depositional
Systems: An Examples in North-Central Texas,
W76-03111 9-07 2F

Aquifer Evaluation Using Depositional
Systems: An Example in North-Central Texas,
W76-05554 9-12 2F

DAMES AND MOORE, CRANFORD, N.J.
Modeling Sediment Deposition in a Tidal River,
W76-10447 9-19 2L

Two-Dimensional Finite Element Dispersion
Model,
W76-10453 9-19 5B

DAMES AND MOORE, LOS ANGELES, CALIF.
Environmental Considerations of Sanitary
Landfill Sites: Part I,
W76-01649 9-04 5E

A Post Construction Survey of Several Man-
made Islands Off the Coast of California,
W76-09911 9-18 2L

DAMES AND MOORE, LOS ANGELES, CALIF.
ADVANCE TECHNOLOGY GROUP.
Numerical Model for Storm Surge and Tidal
Run-Up Studies,
W76-10456 9-19 2L

DAMES AND MOORE, LOS ANGELES, CALIF.
OCEAN SCIENCES.
Flood Protection of Crystal River Unit 3
Nuclear Plant,
W76-07210 9-14 4A

DAMES AND MOORE, LOS ANGELES, CALIF.
PLANNING SYSTEMS GROUP.
Data Management in Coastal Zone Planning,
W76-06818 9-14 7C

DAMES AND MOORE, NEW YORK.
Environmental Considerations of Sanitary
Landfill Sites: Part Two,
W76-02988 9-06 5E

Environmental Studies for Major Offshore
Developments,
W76-09336 9-17 5G

Geotechnical Aspects of Rock Borrow for
Large Breakwaters,
W76-09386 9-17 5G

Evaluation of Offshore Breakwater Stability
Under Wave Action,
W76-09387 9-17 5G

Portable Breakwater with Ship Hulks,
W76-10459 9-19 8B

DAMES AND MOORE, PARK RIDGE, ILL.
Movement of Chemical Contaminants in
Ground Water,
W76-00410 9-01 5B

Movement of Chemical Contaminants in
Ground Water,
W76-08905 9-17 5B

DAMES AND MOORE, SAN FRANCISCO,
CALIF.
Demonstration of a Methodology for Dredged
Material Reclamation and Drainage,
W76-02945 9-06 5E

Asymmetry Analysis in Fishes: A Possible
Statistical Indicator of Environmental Stress,
W76-10121 9-19 5C

DANE COUNTY DEPT. OF PUBLIC WORKS,
MADISON, WIS.
Aquatic Vegetation Harvesting,
W76-02647 9-06 4A

DANISH ATOMIC ENERGY COMMISSION,
RISOE. RESEARCH ESTABLISHMENT; AND
DANISH ATOMIC ENERGY COMMISSION,
ROSKILDE. HEALTH PHYSICS DEPT.
Radiochemical Determination of Plutonium in
Marine Samples by Ion Exchange and Solvent
Extraction,
W76-08614 9-16 5A

DANISH INST. OF APPLIED HYDRAULICS,
COPENHAGEN .
Systems Modeling of Stratified Fluids,
W76-09976 9-18 8B

River and Estuary Modeling with the Siva
System,
W76-09982 9-18 2A

Problems of Physical Model Tests with Har-
bours,
W76-10451 9-19 8B

DANISH INST. OF APPLIED HYDRAULICS,
HORSHOLM.
Numerical Simulation of Storm Surges in Bays,
W76-10457 9-19 2L

DART ENVIRONMENT AND SERVICES CO.,
LOS ANGELES, CALIF. (ASSIGNEE).
Metal Recovery from Waste Treatment
Sludges,
W76-10960 9-20 5D

DARTMOUTH COLL., HANOVER, N.H. DEPT.
OF EARTH SCIENCES.
Atmospheric Sulfur: Its Effect on the Chemical
Weathering of New England,
W76-11890 9-22 5A

DATA INDUSTRIES INC., EAST PROVIDENCE,
R. I. OCEAN DATA EQUIPMENT DIV.
The Design of a Marine Environmental Simula-
tion System,
W76-03643 9-08 5B

DATA RESOURCES, INC., CAMBRIDGE,
MASS.
Energy Policy and Economic Growth,
W76-09606 9-18 6A

DATA RESOURCES, INC., LEXINGTON,
MASS.
The Use of Econometrics to Project Energy
Demands,
W76-09611 9-18 6A

DAVID W. TAYLOR NAVAL SHIP RESEARCH
AND DEVELOPMENT CENTER, BETHESDA,
MD.
Systematic Analysis of Field Survey
Techniques and Operational Utility of Environ-
mental Research to the Navy,
W76-10356 9-19 5G

DAVIS, GRAHAM AND STUBBS, DENVER,
COLO.
Water Rights,
W76-00974 9-02 6E

Integrating Ground and Surface Water Use in
an Appropriation State,
W76-01960 9-04 4B

DAVIS WATER AND WASTE INDUSTRIES,
INC., THOMASVILLE, GA. (ASSIGNEE).
Sewage Treatment Plant,
W76-03013 9-07 5D

DAVIS WATER AND WASTE INDUSTRIES, INC., THOMASVILLE, GA. (ASSIGNEE).

DAYTON UNIV., OHIO. DEPT. OF BIOLOGY.
Microbial Petroleum Degradation: The Role of Cladosporium Resinae,
W76-09327 9-17 5C

DAYTON UNIV., OHIO RESEARCH INST.
Characterization and Utilization of Municipal and Utility Sludges and Ashes, Volume I-Summary,
W76-00687 9-02 5E

Characterization and Utilization of Municipal and Utility Sludges and Ashes. Volume II - Municipal Sludges,
W76-00688 9-02 5E

Characterization and Utilization of Municipal and Utility Sludges and Ashes, Volume III - Utility Coal Ash,
W76-00689 9-02 5E

Characterization and Utilization of Municipal and Utility Sludges and Ashes. Volume IV - Municipal Incinerator Residues,
W76-00690 9-02 5E

DE LAVAL SEPARATOR CO., POUGHKEEPSIE, N. Y. (ASSIGNEE).
Centrifuge Preventing Air Admission During Sludge Discharge,
W76-08990 9-17 5D

DE LAVAL TURBINE, INC., FLORENCE, N.J. CONDENSOR AND FILTER DIV.
UHR Filters Treating Mill Wastewaters,
W76-02434 9-05 5D

DEARBORN CHEMICAL DIV., MICH.
Iron Bacteria and Red water,
W76-03640 9-08 5B

DEBEVOISE AND LIBERMAN, WASHINGTON, D.C.
Legal Problems Involved in Developing Water Supplies for Energy Development,
W76-04336 9-09 3E

DEEP WATER TERMINAL LTD. (ENGLAND).
Costs in Relation to Charges at UK Common-User Berths,
W76-06234 9-13 6C

DEFENCE RESEARCH BOARD, OTTAWA (ONTARIO).
The Regime of the Ward Hunt Ice Shelf and of the Ice in the Mouth of Nansen Sound, Ellesmere Island,
W76-01244 9-03 2C

DEFENCE RESEARCH ESTABLISHMENT, OTTAWA (ONTARIO).
Correlation Analysis of Wind and Ice Drift Data Taken at Lincoln Bay 1972,
W76-04322 9-09 2C

Interpretation of Slar Imagery of Sea Ice in Nares Strait and the Arctic Ocean,
W76-05386 9-11 7B

DEFENSE AND CIVIL INST. OF ENVIRONMENTAL MEDICINE, DOWNSVIEW (ONTARIO).
Principal Components Colour Display of ERTS Imagery,
W76-02064 9-05 7C

DEGREMONT, RUEIL-MALMAISON (FRANCE). (ASSIGNEE).
Apparatus for Treating Industrial and Domestic Waste Waters,
W76-09429 9-18 5D

DEGREMONT SOCIETE GENERALE D'EPURATION ET D'ASSAINISSEMENT, RUEIL-MALMAISON (FRANCE). (ASSIGNEE).
Method of Biological Purification of Sewage,
W76-05524 9-12 5D

DELAVAN MANUFACTURING CORP., WEST DES MOINES, IOWA. (ASSIGNEE)
Low Drift Spray Nozzle,
W76-06467 9-13 5G

DELAWARE RIVER BASIN COMMISSION, TRENTON, N.J.
Implementation of Interstate Water Quality Plan,
W76-00083 9-01 5G

Implementation of Interstate Water Quality Plan,
W76-06201 9-13 5G

DELAWARE STATE COLL., DOVER. DEPT. OF BIOLOGY.
The Rapid Quantitation of the Filamentous Blue-Green Alga Plectonema Boryanum by the Luciferase Assay for ATP,
W76-01158 9-03 5C

DELAWARE UNIV., DEPT. OF CIVIL ENGINEERING. NEWARK.
Sludge Treatment, Utilization, and Disposal, (Literature Review),
W76-12630 9-23 5D

DELAWARE UNIV., LEWES. COLL OF MARINE STUDIES.
Effects of a Thermal Effluent on the American Oyster,
W76-02009 9-05 5C

Principles of Studying Suspended Materials in Water,
W76-03877 9-08 2L

The Suspended Material of the Amazon Shelf and Tropical Atlantic Ocean,
W76-03889 9-08 2L

Amazon River Sediment Transport in the Atlantic Ocean,
W76-04676 9-10 2L

Evaluation of Sludge Dumping Off Delaware Bay,
W76-11792 9-22 5B

Toxicity of Ammonia, Nitrite Ion, Nitrate Ion, and Orthophosphate to Mercenaria Mercenaria and Crassostrea Virginica,
W76-12237 9-23 5C

DELAWARE UNIV., NEWARK.
Monitoring Coastal Water Properties and Current Circulation with ERTS-1,
W76-02044 9-05 7B

(Optimal Design for Wave Spectrum Estimates,
W76-02705 9-06 2L

Offshore Multi-Use Port Islands and Their Environment,
W76-09376 9-17 5G

A Discussion of the Effects of Certain Potential Toxicants on Fish and Shellfish in the Upper Delaware Estuary,
W76-10352 9-19 5C

Manure and the Nitrate Problem,
W76-10616 9-20 5E

DELAWARE UNIV., NEWARK. CENTER FOR THE STUDY OF MARINE POLICY.
Decisions for Delaware: Sea Grant Looks at Legal Aspects of OCS Development,
W76-06485 9-13 6E

DELAWARE UNIV., NEWARK. COLL. OF MARINE STUDIES.
Biogeochemistry of Marsh Gases: Effects of Inorganic Constituents of Marsh Plants on Methane Evolution; and Carbohydrate Stability in Plants,
W76-01139 9-03 2E

Inventories of Delaware's Coastal Vegetation and Land-Use Utilizing Digital Processing of ERTS-1 Imagery,
W76-02037 9-05 7E

Wind Erosion of Heated Surface Layer,
W76-02690 9-06 5E

Effects of Pulsating Wind on Velocity Profiles and Microstructures,
W76-03741 9-08 2L

Use of Silver and Zinc to Trace Sewage Sludge Dispersal in Coastal Waters,
W76-06655 9-13 5B

Legal Considerations for the Construction and Operation of a Deepwater Oil Terminal in the Delaware Bay,
W76-07823 9-15 6E

A Public Authority to Manage the Atlantic Outer Continental Shelf,
W76-11097 9-20 6E

DELAWARE UNIV., NEWARK. COLL. OF MARINE STUDIES; AND DELAWARE UNIV., NEWARK. DEPT. OF CIVIL ENGINEERING.
Waves of Maximum Height on Uniform Currents,
W76-03120 9-07 8B

Wind Effects on Stream Flows,
W76-05921 9-12 2E

DELAWARE UNIV., NEWARK. DEPT. OF BIOLOGICAL SCIENCES.
The Role of Plant Residues in the Retention of Cadmium in Ecosystems,
W76-01813 9-04 5B

Factors Affecting the Accumulation and Removal of Mercury from Tissues of the American Oyster Crassostrea Virginica,
W76-01924 9-04 5C

Accumulation, Tissue Distribution and Elimination of 203HgCl2 and CH3203HgCl in the Tissues of the American Oyster, Crassostrea Virginiaca,
W76-04927 9-10 5C

Diatom Communities from a Delaware Salt Marsh,
W76-12734 9-24 5C

Characterization of the Factors Responsible for Death of Fish Infected with Vibrio Anguillarum,
W76-12745 9-24 5C

Diatom Communities from a Delaware Salt Marsh,
W76-13118 9-24 5C

ELAWARE UNIV., NEWARK. DEPT. OF IEMICAL ENGINEERING.
Solubilization and Wet Oxidation of Suspended and Dissolved Organics,
W76-01506 9-04 5D

Short-Term Regulation of BOD Upsets in an Estuary,
W76-10020 9-19 5G

ELAWARE UNIV., NEWARK. DEPT. OF VIL ENGINEERING.
Interactions of Aqueous Chlorine with Activated Carbon,
W76-00114 9-01 5F

Sludge Handling and Disposal--State of the Art,
W76-03842 9-08 5E

Beach Cusps Formed by Intersecting Waves,
W76-05163 9-11 2L

Nearshore Water Circulation Induced by Wind and Waves,
W76-10433 9-19 2L

Computer Simulation of Beach Erosion and Profile Modification Due to Waves,
W76-10448 9-19 2L

Folklore in the Design of Final Settling Tanks,
W76-11202 9-21 5D

ELAWARE UNIV., NEWARK. DEPT. OF IVIL ENGINEERING; AND DELAWARE NIV., NEWARK. COLL. MARINE STUDIES.
Wave-Induced Mass Transport in Water Waves,
W76-12844 9-24 2H

ELAWARE UNIV., NEWARK. DEPT. OF IVIL ENGINEERING AND MARINE STUDIES.
Particle-Laden Jets with Application to Ocean Dumping,
W76-09959 9-18 5B

ELAWARE UNIV., NEWARK. DEPT. OF CONOMICS.
Deepsea Mineral Utilization, Regulation and Economic Efficiency,
W76-03275 9-07 6C

Prices and Property Rights in the Fisheries,
W76-10586 9-20 6C

ELAWARE UNIV., NEWARK. WATER ESOURCES CENTER.
Hexavalent Chromium in the Ground Water in Paradise Valley, Arizona,
W76-03364 9-07 4B

ELTA MUD AND CHEMICAL CO., HOUMA, A.
Selecting Packer Fluids: Here's What to Consider,
W76-10099 9-19 8G

ENVER RESEARCH INST., COLO.
Spectroscopic Instruments, Satellites and Computers: New Directions for Monitoring the Environment,
W76-00315 9-01 7B

Monitoring the Environment,
W76-00361 9-01 5A

Applications of Aerospace Technology in the Public Interest: Pollution Measurement,
W76-06710 9-13 5C

ENVER RESEARCH INST., DENVER, COLO.
The Development of a Simple Waste Treatment System for U.S. Naval Vessels,
W76-10256 9-19 5D

DENVER UNIV., COLO. COLL. OF LAW
Colorado River Salinity Problem: Has a Solution Been Found,
W76-05200 9-11 6E

DENVER UNIV., COLO. DEPT. OF BIOLOGICAL SCIENCES.
Toxicity of Mine Drainage to Embryonic and Larval Boreal Toads (Bufonidae: Bufo Boreas),
W76-09115 9-17 5C

DENVER UNIV., COLO. DEPT. OF GEOGRAPHY.
Effects of Agriculture on Erosion and Sedimentation in the Piedmont Province, Maryland,
W76-01266 9-03 2J

DEPARTAMENTO DE PESQUISAS E EXP., BRASILIA (BRAZIL).
Phosphorus Deficiency in Cattle from the Brasilia Region of Brazil, (In Portugese),
W76-12322 9-23 5G

DEPARTMENT FOR THE ENVIRONMENT. OTTAWA (ONTARIO). HYDROLOGY RESEARCH DIV.
Estimating Evaporation and Transportation from Climatological Observations,
W76-01122 9-03 2D

DEPARTMENT OF AGRICULTURE AND FISHERIES, DUBLIN (IRELAND). ADVISORY SERVICES AND LIVESTOCK.
Eutrophication of an Inland Lake in Ireland in Association with the Intensification of Pig Farming in the Catchment Areas,
W76-05629 9-12 5C

DEPARTMENT OF AGRICULTURE, ASHBURTON (NEW ZEALAND). WINCHMORE IRRIGATION RESEARCH STATION.
The Effects of Climate on Water use in Canterbury Irrigation Schemes,
W76-00194 9-01 2G

DEPARTMENT OF AGRICULTURE, LETHBRIDGE (ALBERTA). RESEARCH STATION.
Outflow from Various Subsurface Drainage Materials,
W76-08669 9-16 4A

Persistence of Fecal Coliform Indicator Bacteria on Alfalfa Irrigated with Municipal Sewage Lagoon Effluent,
W76-09217 9-17 5C

DEPARTMENT OF AGRICULTURE, LINCOLN, NEBR.
Coordinated Livestock Production Systems,
W76-00465 9-01 5D

Precipitation Nitrogen Contribution Relative to Surface Runoff Discharges,
W76-00729 9-02 5B

The Nitrogen Status Beneath Beef Cattle Feedlots in Eastern Nebraska,
W76-01381 9-03 5B

DEPARTMENT OF AGRICULTURE, MOSGIEL (NEW ZEALAND). INVERMAY AGRICULTURAL RESEARCH CENTER.
Prediction of Plant Response to Fertilisers by Means of Soil Tests,
W76-00491 9-01 3F

DEPARTMENT OF AGRICULTURE, OTTAWA (ONTARIO). CHEMISTRY AND BIOLOGY RESEARCH INST.
Effects of Time Taken to Apply an Irrigation on Seasonal Irrigation Requirements,
W76-00731 9-02 3F

Estimation of the Water Hydration in Wintering Wheat Leaves by Proton Magnetic Resonance,
W76-07226 9-14 2I

DEPARTMENT OF AGRICULTURE, OTTAWA (ONTARIO). SOIL RESEARCH INST.
Chemical and Plant Extractability of Metals and Plant Growth on Soils Amended with Sludge,
W76-12929 9-24 5B

DEPARTMENT OF AGRICULTURE, SASKATOON (SASKATCHEWAN). RESEARCH STATION.
Evaluation of an Over-Extended Sprinkler Irrigation System,
W76-00198 9-01 3F

DEPARTMENT OF AGRICULTURE, SUMMERLAND (BRITISH COLUMBIA). RESEARCH STATION.
Ratio Between Evapotranspiration from Lysimeters and Evaporation from Small Evaporimeters Using 2- and 3- hour Periods of Measurement,
W76-06029 9-12 2D

DEPARTMENT OF AGRICULTURE, WASHINGTON, D. C. OFFICE OF THE SECRETARY. (ASSIGNEE).
Removing Heavy Metal Ions from Water,
W76-08401 9-16 5D

Removal of Heavy Metal Ions from Wastewater,
W76-08402 9-16 5D

DEPARTMENT OF AGRICULTURE, WATKINSVILLE, GA.
Steady Infiltration From Line Sources Buried in Soil,
W76-01065 9-03 3F

DEPARTMENT OF COMMERCE, WASHINGTON, D. C.
Industrial Development Through Water-Resources Planning,
W76-09034 9-17 3E

DEPARTMENT OF ECONOMIC AND SOCIAL AFFAIRS (UN), NEW YORK.
National Systems of Water Administration.
W76-04622 9-10 6E

DEPARTMENT OF ENERGY, MINES, AND RESOURCES, OTTAWA, ONTARIO, CANADA, MINERAL SCIENCES DIVISION, MINES BRANCH.
Sorption of Trace Quantities of Metal Ions by Bentonite Clay from a Thiosalt Medium,
W76-04214 9-09 5D

DEPARTMENT OF ENERGY, MINES AND RESOURCES, OTTAWA (ONTARIO). EARTH PHYSICS BRANCH.
The Application of Ice Physics to Glacier Studies,
W76-01250 9-03 2C

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Canadian Milling Practice for Water Re-Use,
W76-08272 9-16 5D

DEPARTMENT OF ENERGY, MINES AND RESOURCES, OTTAWA (ONTARIO). MINERAL SCIENCES DIV.
Electrochemical Properties of the Oxide-Solution Interface in Relation to Flotation,
W76-10629 9-20 5B

DEPARTMENT OF ENVIRONMENT, CANBERRA (AUSTRALIA).
An Assessment of Eutrophication in Australian Inland Waters,
W76-05405 9-11 5C

DEPARTMENT OF ENVIRONMENT, OTTAWA, ONT. CANADA, ENVIRONMENTAL SYSTEMS BRANCH.
Mathematical Modelling and Environmental Decision-Making,
W76-11880 9-22 6G

DEPARTMENT OF ENVIRONMENT, OTTAWA (ONTARIO).
A Legal-Historical Analysis of Navigation User Charges,
W76-12532 9-23 6E

DEPARTMENT OF FISHERIES AND FORESTRY, OTTAWA (ONTARIO). INLAND WATERS BRANCH.
Glacier Studies in the Canadian IHD Program,
W76-01241 9-03 2C

Combined Balance Studies at Selected Glacier Basins in Canada,
W76-01242 9-03 2C

The Canadian Glacier Inventory,
W76-01245 9-03 2C

Hydrology of Glacierized Basins--Summary of Research by Glaciology Subdivision,
W76-01247 9-03 2C

DEPARTMENT OF JUSTICE, WASHINGTON, D.C. LAND AND NATURAL RESOURCES DIV.
Inventory and Quantification of Federal Water Rights: A Common Denominator of Proposals for Change,
W76-01957 9-04 6E

Indicators of Change in the Recreation Environment: Law and Environmental Planning,
W76-04328 9-09 6G

Federal Water Rights and a Legislative Proposal for Their Quantification,
W76-04629 9-10 6E

DEPARTMENT OF MINERALS AND ENERGY, CANBERRA (AUSTRALIA). DIV. OF NATIONAL MAPPING.
Australia Dams and Storages.
W76-04307 9-09 7C

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Effect of Flooding on the Regeneration of Six Tropical Grasses after Defoliation,
W76-07696 9-15 4A

DEPARTMENT OF PUBLIC WORKS, TORONTO (ONTARIO).
Sewer Lining--The Toronto Technique,
W76-02172 9-05 8G

DEPARTMENT OF SCIENCE, MELBOURNE (AUSTRALIA). ANTARCTIC DIV.
Radio-Echo Sounding of the Lambert Glacier Basin,
W76-05380 9-11 2C

Antarctic Sea-Ice Variations from Satellite Sensing in Relation to Climate,
W76-05398 9-11 7B

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, LOWER HUTT (NEW ZEALAND). ECOLOGY DIV.
Chemical Run-off in Catchments Converted to Agricultural Use,
W76-02528 9-06 5B

Lake Ellesmere, Canterbury, New Zealand: A Review of the Lake and its Catchment,
W76-06762 9-13 5C

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, LOWER HUTT (NEW ZEALAND). PHYSICS AND ENGINEERING LAB.
Underground Waters of the Lower Hutt--A Model Study,
W76-03753 9-08 2F

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, PALMERSTON NORTH (NEW ZEALAND). PLANT PHYSIOLOGY DIV.
Relationships Between Leaf Water Status, Abscisic Acid Levels, and Stomatal Resistance in Maize and Sorghum,
W76-01117 9-03 2I

Effects of Water Stress Under Contrasting Environmental Conditions on Transpiration and Photosynthesis in Soybean,
W76-11362 9-21 3F

Transpiration and Photosynthesis in Soybean: Effects of Temperature and Vapour Pressure Deficit,
W76-11407 9-21 3F

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, TAUPO (NEW ZEALAND). ECOLOGY DIV.; AND DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, TAUPO (NEW ZEALAND). FRESHWATER SECTION.
Self-Purification of Small Freshwater Streams: Phosphate, Nitrate, and Ammonia Removal,
W76-09398 9-17 5G

A Conductivity Flow Meter,
W76-12825 9-24 7B

DEPARTMENT OF STATE, WASHINGTON, D. C.
Diplomatic and Legal Aspects of Remote Sensing,
W76-10584 9-20 6E

Department Opposes Unilateral Extension of U. S. Fisheries Jurisdiction,
W76-10744 9-20 6E

World Environmental Quality.
W76-12037 9-22 6G

DEPARTMENT OF STATE, WASHINGTON, D.C. OFFICE OF THE ASSISTANT LEGAL ADVISER FOR OCEAN AFFAIRS.
Commentary on the North-South Split and the Law of the Sea Debate,
W76-07338 9-14 6E

Issues to be Resolved in the Second Substantive Session of the Third United Nations Conference on the Law of the Sea,
W76-07807 9-15 6E

DEPARTMENT OF THE ENVIRONMENT AND CONSERVATION, CANBERRA (AUSTRALIA).
Hydrograph Recession Constants for New South Wales Streams,
W76-00541 9-02 2E

DEPARTMENT OF THE ENVIRONMENT, BURLINGTON (ONTARIO).
Canadian Water Resources Information: Network Approach,
W76-05952 9-12 1

DEPARTMENT OF THE ENVIRONMENT, BURLINGTON (ONTARIO). INLAND WATERS BRANCH.
Light Transmission Through Snow and Ice,
W76-04178 9-09 2

DEPARTMENT OF THE ENVIRONMENT, BURLINGTON (ONTARIO). INLAND WATERS DIRECTORATE.
Effects of Ice and Snow Cover on Transmission of Light in Lakes,
W76-04179 9-09 2

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Flood of June 1972 in the Southern Peace (Smoky River) Basin, Alberta,
W76-01316 9-03 2

DEPARTMENT OF THE ENVIRONMENT, CANBERRA (AUSTRALIA).
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W76-08162 9-16 5

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UK Work on the Use of Oxygen in the Treatment of Waste Water, Associated with the CCMS Advanced Waste Water Treatment Project, (II).
W76-12669 9-23 5

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Towards System Models For Water Resource Management--A Comment,
W76-01603 9-04 6

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W76-07785 9-15 7

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W76-10498 9-19 7

Approach to Glacier Mass-Balance Analysis Utilizing Terrain Characterization,
W76-10499 9-19 2

DEPARTMENT OF THE ENVIRONMENT, OTTAWA (ONTARIO).
Retransmission of Water Resources Data Using the ERTS-1 Data Collection System,
W76-02032 9-05 7B

Spray Runoff Disposal of Waste Stabilization Pond Effluent,
W76-03348 9-07 5D

Canada Water Act, Annual Report - 1974 - 975.
W76-04152 9-09 6E

Monograph on Comprehensive River Basin Planning.
W76-04175 9-09 4A

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W76-04412 9-09 2C

Characterization and Treatment of Fish Processing Plant Effluents in Canada,
W76-04752 9-10 5D

Mesoscale Description for the Principal Bering Sea Ice Experiment,
W76-04997 9-10 2C

Canada Water Act - Annual Report, 1973-74,
W76-06369 9-13 6E

Sludge Incineration and Precipitant Recovery, Volume I, A Selective Coded Bibliography,
W76-07678 9-15 5E

Factors Affecting Activated Sludge Treatment of Kraft Bleachery Effluent,
W76-07684 9-15 5D

EPARTMENT OF THE ENVIRONMENT, TTAWA (ONTARIO); AND NEW BRUNSWICK EPT. OF FISHERIES AND ENVIRONMENT.
Flood Hazard Map, Fredericton Area, New Brunswick, Southeast Sheet.
W76-04158 9-09 7C

EPARTMENT OF THE ENVIRONMENT, TTAWA (ONTARIO); AND NEW BRUNSWICK EPT. OF FISHERIES AND NVIRONMENTAL.
Flood Hazard Map, Fredericton Area, New Brunswick, Northwest Sheet.
W76-04157 9-09 7C

EPARTMENT OF THE ENVIRONMENT, TTAWA (ONTARIO). APPLIED HYDROLOGY V.
Sediment Data, Canadian Rivers 1972.
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Surface Water Data, Alberta 1974.
W76-04167 9-09 7C

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Surface Water Data, Manitoba 1974.
W76-04250 9-09 7C

DEPARTMENT OF THE ENVIRONMENT, OTTAWA (ONTARIO). HYDROLOGY RESEARCH DIV.

Simulation of Gamma-Distributed First-Order Markov Chain,
W76-00743 9-02 2E

Output from a Cascade of Discrete Linear Reservoirs with Stochastic Input,
W76-03742 9-08 2E

Climatogical Estimates of Evapotranspiration,
W76-07772 9-15 2D

DEPARTMENT OF THE ENVIRONMENT, OTTAWA (ONTARIO). INLAND WATERS DIRECTORATE.

Floating Ice Thickness and Structure Determination--Heated Wire Technique,
W76-00884 9-02 2C

User Response to Water Quality and Water-based Recreation in the Qu'Appelle Valley, Saskatchewan,
W76-01353 9-03 5G

Surface Water Data, British Columbia 1974.
W76-04150 9-09 7C

Statistical Estimation of a Demand Function for Residential Water,
W76-04236 9-09 6D

Surface Water Data, Yukon and the Northwest Territories 1974.
W76-04249 9-09 7C

Surface Water Data, Ontario 1974.
W76-04256 9-09 7C

Flood Damage in Fredericton.
W76-04260 9-09 7C

Subsurface Disposal of Liquid Industrial Wastes,
W76-05573 9-12 5B

Determining Aquifer Coefficients from Residual Drawdown Data,
W76-05689 9-12 2F

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Automated Streamflow Computations.
W76-04241 9-09 7C

The Permittivity and Attenuation in Polycrystalline and Single-Crystal Ice Ih at 30 and 60 MHz,
W76-05672 9-12 2C

Brittle Fracture of Ice at 77 K,
W76-05673 9-12 2C

Measurement of Small Strain-Rates Over Short Time Periods,
W76-06184 9-13 2C

Behaviour of Oil under Canadian Climatic Conditions Part 1. Oil on Water under Ice-Forming Conditions,
W76-06366 9-13 5G

Research Projects in Glaciology - 1974,
W76-06368 9-13 2C

Water Quality Data Alberta 1961 - 1973.
W76-06374 9-13 7C

Determining Aquifer Transmissivity by Means of Well Response Tests: The Underdamped Case,
W76-08124 9-16 2F

Behaviour of Oil Under Canadian Climatic Conditions. Part 1. Oil on Water Under Ice-Forming Conditions,
W76-08365 9-16 5B

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W76-11650 9-22 5G

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Point Petre Storm Surges Simulation,
W76-11303 9-21 2H

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Operational Characteristics of the DECCA LAMBDA (6F) Positioning System Over Fresh Water,
W76-07091 9-14 2H

Simulation of Movement of Oil Slicks in the Strait of Georgia using Simple Atmosphere and Ocean Dynamics,
W76-09316 9-17 5C

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Alongshore Coherence at Low Frequencies in Currents Observed over the Continental Shelf Off Oregon and Washington,
W76-01271 9-03 2L

DEPARTMENT OF THE ENVIRONMENT, OTTAWA (ONTARIO). OCEANOGRAPHY BRANCH.

Free Oscillations in Bays and Harbors,
W76-10420 9-19 8B

DEPARTMENT OF THE ENVIRONMENT, OTTAWA (ONTARIO). SCIENCE POLICY BRANCH.

An Approach to a Water Quality Index for Canada,
W76-06272 9-13 5G

Environmental Indices and Monitoring,
W76-11245 9-21 5A

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Land Drainage as a Factor in 'Red Tide' Development,
W76-07616 9-15 5C

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Utilization of Alumized Red Mud Solids (Arms) For Phosphorus Removal,
W76-02520 9-06 5D

Phosphorus Removal Demonstration Studies at C.F.B. Trenton, Phase II,
W76-10490 9-19 5D

Recycling of Liquid Digested Sewage Sludge on Dredged River Sand,
W76-10501 9-20 5D

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W76-04151 9-09 2C

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W76-04154 9-09 2C

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W76-04160 9-09 7C

Hydrogeological Study of the Selkirk Area, Manitoba,
W76-04162 9-09 4B

Niagara River Acoustic Streamflow Measurement System,
W76-04165 9-09 7B

Program Tebes, Transmissivity, Leakage Factor and Storativity from a Least Squares Fit of Residual Drawdown,
W76-04181 9-09 7C

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W76-04239 9-09 2A

Uses of Water Resources Data,
W76-04255 9-09 7C

Further Climatological Studies of Baffin Island, Northwest Territories,
W76-04259 9-09 2B

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W76-05805 9-12 5D

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W76-00548 9-02 4B

Mathematical simulation of Groundwater Abstraction from Confined Aquifers for River Regulation,
W76-00904 9-02 2F

The Use of a Digital Model in the Management of the Chalk Aquifer in the South Downs, England,
W76-02714 9-06 4B

The Use of a Digital Model in the Management of the Chalk Aquifer in the South Downs, England,
W76-03356 9-07 4B

Normal Mode Analysis of the Linear Equation of Groundwater Flow,
W76-05685 9-12 2F

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Data Collection Systems and Their Impact on the Future Development of Hydrology,
W76-06277 9-13 7A

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Flood of June 1971 Fort Nelson and Muskw Rivers,
W76-06367 9-13 2

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Penetrative Convection in the Absence Mean Shear,
W76-04957 9-10 2

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Oil in Sea Ice,
W76-11098 9-20 5

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W76-01477 9-03 2

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W76-07773 9-15 2

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Preparation of Reverse Osmosis Membranes b Complete Evaporation of the Solvent System,
W76-09876 9-18 3

Reverse Osmosis Process Using Crosslinke Aromatic Polyamide Membranes,
W76-09877 9-18 3

DEPARTMENT OF THE INTERIOR, WASHINGTON, D.C. OFFICE OF THE SECRETARY.
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W76-01134 9-03 3

Reverse Osmosis Membrane,
W76-05029 9-11 3

Direct Contact Multi-Stage Flash Desalination,
W76-09052 9-17 3

DEPARTMENT OF THE INTERIOR, WASHINGTON, D. C. OFFICE OF THE SECRETARY. (ASSIGNEE).
Method for Removing Soluble Selenium fro Acidic Waste Water,
W76-05986 9-12 5

Process for Separating Liquids from Suspen sions,
W76-11448 9-21 5

DEPARTMENT OF THE NAVY, WASHINGTON, D.C.
Naval Submarine Base, New London, Groton Connecticut Dredge River Channel, Volume (Environmental Impact Statement).
W76-03924 9-08 8

icle Vaporizer,
6-08148 9-16 3B

RTMENT OF THE NAVY,
IINGTON, D.C. OFFICE OF THE
ETARY.
ier Level Gauge,
6-05977 9-12 7B

RTMENT OF THE NAVY,
HINGTON, D. C. OFFICE OF THE
ETARY. (ASSIGNEE).
e Motion and Water Current Disc Sensor,
6-05539 9-12 7B

RTMENT OF THE TREASURY,
HINGTON, D.C.
Tanker Pollution Control: Design Criteria
Effective Liability Assessment,
6-07812 9-15 5G

UL UNIV., CHICAGO, ILL.
uts of Phosphorus from Precipitation to
e Michigan,
6-13112 9-24 5B

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CE OF THE SECRETARY.
noving Heavy Metal Ions from Water,
6-04610 9-10 5D

LINATION SYSTEMS, INC.,
NDIDO, CALIF. (ASSIGNEE).
verse Osmosis System with Automatic
shing,
6-12402 9-23 5D

LINATION SYSTEMS, INC.,
NDITO, CALIF. (ASSIGNEE).
paratus for Control of a Reverse Osmosis
stem,
6-07440 9-14 3A

thod for Cleaning Semipermeable Mem-
nes,
6-07446 9-14 3A

RT INST., ASHKHABAD (USSR).
ter Distillation in the Turkmen SSR and the
bek SSR, (In Russian),
6-03697 9-08 3A

an Annual Runoff in Central Asia and
stern Kazakh Deserts, (In Russian),
6-05304 9-11 2E

ROIT METRO WATER DEPT., MICH.
werage System Monitoring and Remote Con-
l,
6-00691 9-02 5D

TSCHE AKADEMIE DER
SENSCHAFTEN ZU BERLIN (EAST
MANY). FORSCHUNGSSTELLE FUER
VELTGESTALTUNG.
Mathematical Model of Blooms of Plankton
atoms, (In German),
6-10127 9-19 5C

TSCHE GOLD- UND SILBER-
EIDEANSTALT A. G., FRANKFURT-AM-
N (WEST GERMANY).
ocess for the Precipitation of Heavy Metal
n-Polycarboxylate Complexes,
6-11452 9-21 5D

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EIDEANSTALT A. G., FRANKFURT-AM-
N (WEST GERMANY). (ASSIGNEE).
ocess for the Environmentally Favorable
struction of Solid and/or Liquid Cyanide
aste,
6-08208 9-16 5D

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Cooling Tower Experience and the Meteorological Consequences of Thermal Discharges from Nuclear Power Plants in the Federal Republic of Germany,
W76-08855 9-17 5G

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A Method for the Rapid Enrichment and Determination of Silver-110m and Iodine-131 from Seawater,
W76-08624 9-16 5A

DEVELOPMENT AND RESOURCES TRANSPORTATION CO., SILVER SPRING, MD.
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W76-06660 9-13 2G

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W76-10562 9-20 5G

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W76-03298 9-07 5G

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W76-09775 9-18 5G

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W76-09777 9-18 5G

Economic Analysis of Effluent Guidelines: Apple, Citrus and Potato Processing Segments of the Canned and Preserved Fruits and Vegetable Industry,
W76-09779 9-18 5G

Water Pollution Control Act of 1972, Economic Impacts, Leather Tanning Industry.
W76-10561 9-20 5G

Water Pollution Control Act of 1972, Economic Impacts, Meat Products,
W76-11779 9-22 5G

Water Pollution Control Act of 1972, Economic Impacts, Dairy Products.
W76-11801 9-22 5G

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W76-11803 9-22 5G

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W76-11804 9-22 5G

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W76-08394 9-16 5D

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W76-05351 9-11 6G

DIRECTORATE GENERAL OF PETROLEUM AND MINERALS, MUSCAT (OMAN).
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W76-03746 9-08 2G

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Carbon, Nitrogen, and Phosphorus Removal in Staged Nitrification-Denitrification Treatment,
W76-01865 9-04 5D

Single Stage Nitrification-Denitrification,
W76-01866 9-04 5D

DITTMANN (CARL) AND CO., KARLSRUHE (WEST GERMANY).
Removal of Zinc from Plating Rinse Water by Simple Neutralization,
W76-01642 9-04 5D

DIVISION OF BIOMEDICAL AND ENVIRONMENTAL RESEARCH (USERDA), WASHINGTON, D.C.
An Oceanographic Research Program for the Continental Shelf off the Southeastern United States.
W76-00533 9-02 2L

Alternative High-Level Radiation Sources for Sewage and Waste-Water Treatment,
W76-09536 9-18 5D

Southeast Coastal Research Activities of ERDA,
W76-11477 9-21 6G

DIVISION OF REACTOR RESEARCH AND DEVELOPMENT (USERDA), WASHINGTON, D.C.
Comparative Rist-Cost-Benefit Study of Alternative Sources of Electrical Energy. Appendix A: Energy Expenditures Associated with Electric Power Production by Nuclear and Fossil Fueled Power Plants.
W76-03281 9-07 6B

DNEPROPETROVSKII GOSUDARSTVENNYI UNIVERSITET (USSR). INST. OF HYDROBIOLOGY; AND DNEPROPETROVSKII GOSUDARSTVENNYI UNIVERSITET (USSR).
Phytoplankton in Northern Donetsk Ponds for Additional Treatment, (In Ukranian),
W76-08577 9-16 5C

DOANE COLL. CRETE, NEBR.
Institutional Behavior Concerning River Basin Management Legislation,
W76-01682 9-04 6E

DOBROCKY SEATECH LTD., VICTORIA (BRITISH COLUMBIA).
A Technique for Measurement of Wood-Fiber Deposits Around Pulp-Mill Outfalls,
W76-04765 9-10 5A

Dispersion of Dyed Sea-Water Discharged from Moving Vessels in Coastal Waters,
W76-11086 9-20 5B

DOMINGUE, SZABO AND ASSOCIATES, INC., LAFAYETTE, LA.
Storm Sewer Pipe Joints Tight After Ten Years,
W76-08966 9-17 8G

DOMTAR LTD. RESEARCH CENTRE, SENNEVILLE (ONTARIO).
Use of Lime in the Treatment of Municipal Wastewaters,
W76-04242 9-09 5D

DONG KOOK UNIV., SEOUL (REPUBLICOF KOREA). DEPT. OF SCIENCE EDUCATION.
Studies on the Effects of Copper on the Lactate Dehydrogenase and Esterase Isozymes in Various Tissues of Carassius Carassius,
W76-05595 9-12 5C

DORNBUSCH (DAVID M.) AND CO., INC., SAN FRANCISCO, CALIF.
Benefits from Water Pollution Abatement, Property Values,
W76-10580 9-20 5G

DORR-OLIVER, INC., STAMFORD, CONN.
Fiber Recovery Increases Water Reuse and Reduces Waste Treatment Costs,
W76-04224 9-09 5D

Transport Phenomena Applied to Sludge Dewatering,
W76-05264 9-11 5D

Fiber Recovery Increases Water Re-Use, Reduces Treatment Cost,
W76-08489 9-16 5D

DORR-OLIVER INC., STAMFORD, CONN. (ASSIGNEE)
Fluid Bed Incineration of Wastes Containing Alkali Metal Chlorides,
W76-01680 9-04 5D

Sewage Handling and Disposal Process for Chloride (NACL) Contaminated Sludges,
W76-10205 9-19 5D

Traction-Driven Composite Sludge Raking Mechanism for Sedimentation Tanks,
W76-10206 9-19 5D

DORR-OLIVER, INC., STAMFORD, CONN. ENVIRONMENTAL APPLICATIONS.
Pulse Transfer Gives Thicker Sludge,
W76-03685 9-08 5D

DORR-OLIVER, INC., STAMFORD, CONN. ENVIRONMENTAL TECHNOLOGY.
Equipment for Dewatering Waste Streams,
W76-03227 9-07 5D

DORR-OLIVER (INDIA) LTD., MADRAS.
Studies on the Metallic Ion Stimulation and Toxicity in Sludge Digestion,
W76-00231 9-01 5D

Tertiary Treatment Plant for Multistoried Building,
W76-05789 9-12 5D

DORTMUND UNIV. (WEST GERMANY).
Environmental Policy and Developments in Water Supply in West Germany and Europe,
W76-04560 9-10 5G

DOUGLAS UNITED NUCLEAR, INC., RICHLAND, WASH.
An Investigation of Effluent Control Standards and Practices (Atomic Energy Production),
W76-10828 9-20 5G

DOW CHEMICAL CO., FREEPORT, TEX.
Desalination Materials Manual,
W76-06801 9-14 3A

DOW CHEMICAL CO., FREEPORT, TEX. TEXAS DIV.
Optimizing A Petrochemical Waste Bio-oxidation System Through Automation,
W76-02503 9-06 5D

The Effects of Desalination Brines on Crassostrea Virginica (Gmelin),
W76-03414 9-07 5C

DOW CHEMICAL CO., MIDLAND, MICH.
The Dow Chemical Company Conceptual Design of a 50 MGD Desalination Plant.
W76-00161 9-01 3A

Development, Fabrication and Testing of a PPB Copper Analyzer,
W76-03144 9-07 3A

Sea Water Corrosion Test Program: Part Three,
W76-03145 9-07 3A

Sea Water Corrosion Test Program: Part Four,
W76-03146 9-07 3A

Continued Studies on the Use of a Mixed Chromate-Phosphate Inhibitor in Desalination Service, Final Report,
W76-03190 9-07 3A

Nonmetallics - Their Performance in the Desalination Environment,
W76-03191 9-07 3A

Relationships of Corrosion Rates to Water Chemistry in the Freeport Test Bed Plant,
W76-03192 9-07 3A

Quantitative Determination of Asbestos Fiber Concentrations,
W76-12899 9-24 5A

DOW CHEMICAL CO., MIDLAND, MICH. ENVIRONMENTAL CONTROL SYSTEMS.
Pollution Control Options Other Than Treatment,
W76-03837 9-08 5G

DOW CHEMICAL CO., MIDLAND, MICH. ENVIRONMENTAL SCIENCES RESEARCH.
Bioconcentration of 2,2',4,4'-Tetrachlorobiphenyl in Rainbow Trout as Measured by an Accelerated Test,
W76-03766 9-08 5C

DOW CHEMICAL CO., WALNUT CREEK, CALIF. WESTERN DIV. RESEARCH LABS.
Development of CTA High Flux Low Operating Pressure R.O. Modules,
W76-03149 9-07 3A

DOW CHEMICAL U.S.A., MIDLAND, MICH.
Continued Studies on the Use of a Mixed Chromate-Phosphate Inhibitor in Desalination Service: Part Two,
W76-03143 9-07 3A

DOW CHEMICAL U.S.A., MIDLAND, MICH. (ASSIGNEE).
Cyanide Enhancement of the Photooxidation of Acetic Acid,
W76-05032 9-11 5D

DOW CHEMICAL U. S. A., MIDLAND, MICH. HEALTH AND ENVIRONMENTAL RESEARCH.
Mathematical Models Predict Concentration-Time Profiles Resulting from Chemical Spill in a River,
W76-05155 9-11 5B

DOW CHEMICAL U. S. A., MIDLAND, MICH. WASTE CONTROL DIV.
Organic Contaminants of Water,
W76-09689 9-18 5A

DOW CHEMICAL U.S.A., WALNUT CREEK, CALIF. WESTERN DIV. RESEARCH LABS.
One Pass Seawater Desalination Hollow Fine Fibers,
W76-03150 9-07 3A

DOW CORNING CORP., MIDLAND, MICH.
Toxicity of Polydimethylsiloxanes in Certa Environmental Systems,
W76-10348 9-19

DOWELL DIV., TULSA, OKLA.
Well Completion - Techniques and Methods,
W76-08894 9-17
How to Perform a Through-Tubing Grav Pack,
W76-10113 9-19

DRAKE UNIV., DES MOINES, IOWA. DEPT. PHYSICS.
Anaerobic Digestion: The Rate-Limiti Process and the Nature of Inhibition,
W76-05784 9-12

DRAVO CORP., PITTSBURG, PA. BLAW-KNOX CHEMICAL PLANTS DIV.
10,000,000 Gallon Per Day Seconda Refrigerant Freeze Desalting Plant.
W76-06549 9-13

DRESSER INDUSTRIES, INC., HOUSTON, TE MAGCOBAR DIV.
How to Drill Troublesome Shales,
W76-10108 9-19

DRESSER INDUSTRIES, INC., HOUSTON, TE OIL FIELD PRODUCTS DIV.
Fish Toxicity of Dispersed Clay Drilling M Deflocculants,
W76-08896 9-17

DRESSER INDUSTRIES, INC., HOUSTON, TE OILFIELD PRODUCTS DIV.
Toxicity Study - Drilling Fluid Chemicals Aquatic Life,
W76-08895 9-17
Waste Water Base Drilling Fluid Disposal,
W76-08914 9-17

DREXEL UNIV., PHILADELPHIA, PA. DEPT. OF CHEMISTRY.
Analysis of Organic Pollutants in Drinki Water,
W76-11242 9-21

DREXEL UNIV., PHILADELPHIA, PA. DEPT. OF ENVIRONMENTAL ENGINEERING AND SCIENCE.
Frequency Distributions for Coliform Bacter in Water,
W76-10650 9-20

DREXEL UNIV., PHILADELPHIA, PA. DEPT. OF MECHANICAL ENGINEERING AND MECHANICS.
Momentum Transfer in Hydrodynamicall Developing Laminar Flow in a Straight Chan nel,
W76-08318 9-16

DRILCO, HOUSTON, TEX.
How to Drill Without Troublesome Dog-Legs,
W76-10111 9-19
How to Drill a Usable Hole Part I - Why Devia tion Occurs,
W76-11915 9-22

DRILCO, HOUSTON, TEX. TECHNICAL SERVICES.
How to Drill a Usable Hole - Part 2, Designing the Bottomhole Assembly,
W76-13038 9-24

ENGINEERS, INC., FT. LAUDERDALE,
ommercial Membrane Desalting Plants: Data
d Analysis,
76-08370 9-16 3A

PONT CO., WILMINGTON, DEL.
odegradation of Polyvinyl Alcohol in Waste-
ater,
76-06967 9-14 5D

PONT DE NEMOURS AND CO., MINGTON, DEL. INDUSTRIAL EMICALS DEPT.
Peroxygen System for Destroying Cyanide in nc and Cadmium Electroplating Rinse aters,
76-08470 9-16 5D

PONT DE NEMOURS (E. I.) AND CO., EN, S.C.; AND SAVANNAH RIVER LOGY LAB., AIKEN, S.C.
mperature Effects on the Sorption of dionuclides by Aquatic Organisms.
76-03464 9-07 5C

PONT DE NEMOURS (E. I.) AND CO., EN, S.C. SAVANNAH RIVER LAB.
spiration and Net Productivity of the Plank-n Community in a Reactor Cooling Reservoir,
76-02020 9-05 5C

termination of Parts Per Billion Sulfide in ater with the Sulfide-Selective Electrode,
76-06744 9-13 5A

moval of Cesium from Savannah River Plant aste Supernate,
76-07479 9-15 5D

am Survival in Chlorinated Water,
76-07481 9-15 5G

llutant Transport in Natural Streams,
76-08329 9-16 5B

aluation of Mineralization Processes for SRP astes,
76-08595 9-16 5G

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76-08596 9-16 5B

tonium in Atlantic Coastal Estuaries in the utheastern United States of America,
76-08600 9-16 5C

fects of Fire on Nutrient Movement in a uth Carolina Pine Forest,
76-11933 9-22 5B

erim Solidification of SRP Waste with Silica, ntonite, or Phosphoric Acid,
76-12690 9-24 5D

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76-12714 9-24 5B

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76-12762 9-24 5C

ONT DE NEMOURS (E. I.) AND CO., N, S.C. SAVANNAH RIVER PLANT.
vey for Radioactivity in a Swamp,
76-12689 9-24 5C

DU PONT DE NEMOURS (E. I.) AND CO., WILMINGTON, DEL.
Water-Quality Requirements for the Chemical Industry,
W76-00284 9-01 5D

Development of Non-Cellulosic RO Systems for Sea Water Desalting,
W76-07318 9-14 3A

DU PONT DE NEMOURS (E. I.) AND CO., WILMINGTON, DEL. (ASSIGNEE).
Waste Water Treatment Process,
W76-01132 9-03 5D

Biodegradation of Methanolic Waste Water,
W76-05525 9-12 5D

DUKE POWER CO., CHARLOTTE, N.C.
Saturation Values of Dissolved Gases Associated with the Occurrence of Gas-Bubble Disease in Fish in a Heated Effluent,
W76-03466 9-07 5C

Physical Model of Discharge in a Two-Layer Stratified Ambient,
W76-09963 9-18 8B

DUKE POWER CO., CHARLOTTE, N.C. DESIGN ENGINEERING DEPT.
Mercury Levels in Georgia Otter, Mink, and Freshwater Fish,
W76-00878 9-02 5A

DUKE UNIV., BEAUFORT, N. C.
Effects of Mirex, Methoxychlor and Malathion on Development of Crabs,
W76-10899 9-20 5C

DUKE UNIV., BEAUFORT, N.C. MARINE LAB.
The Oceans as Ultimate Sinks for Wastewaters and Wastewater Residuals,
W76-03846 9-08 5E

Biological Considerations,
W76-11484 9-21 6G

Temperature Responses of a Coccolithophorid, Cricosphaera Carterae, Measured in a Simple and Inexpensive Thermal-Gradient Device,
W76-12764 9-24 5A

DUKE UNIV., DURHAM, N.C. DEPT. OF BOTANY.
The Effect of Decreasing Water Potential On Net CO2 Exchange of Intact Desert Shrubs,
W76-02529 9-06 2I

Nutrient Return in the Stemflow and Throughfall of Individual Trees in the Piedmont Deciduous Forest,
W76-10326 9-19 5B

North Carolina Marine Algae. VI. Some Ceramiales (Rhodophyta), Including a New Species of Dipterosiphonia,
W76-13025 9-24 5C

DUKE UNIV., DURHAM, N. C. DEPT. OF CIVIL ENGINEERING.
The Role of Engineering in Minimizing Offshore Impacts,
W76-09331 9-17 5G

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Photosynthetic Rates of Phytoplankton in East African Alkaline, Saline Lakes,
W76-06742 9-13 5C

Effects of Calcium, Strontium and Magnesium on the Coccolithophorid Cricosphaera (Hymenomonas) Carterae. II. Cell Division,
W76-10079 9-19 5C

DUKE UNIV., DURHAM, N. C. SCHOOL OF FORESTRY.
Water Quality and Economic Criteria for Rural Wastewater and Water Supply Systems,
W76-10583 9-20 5D

DUKE UNIVERSITY, DURHAM, N. C.
Geological Oceanography Considerations,
W76-11482 9-21 6G

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Wildfowl and Pollution in the Tay Estuary,
W76-11714 9-22 5C

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The Role of Organic Detritus in the Formation of Distinctive Sandy Tidal Flat Sedimentary Structures, Tay Estuary, Scotland,
W76-08524 9-16 2L

DUNSTAFFNAGE MARINE RESEARCH LAB., OBAN (SCOTLAND).
Phosphorus Quota and the Chlorophyll: Carbon Ratio in Marine Phytoplankton,
W76-05461 9-11 5C

Acclimation of Rainbow Trout to Sea Water,
W76-09125 9-17 2L

A Comparative Study of the Effects on the Marine Environment of Wastes from Cellulose Industries in Scotland and Sweden,
W76-11402 9-21 5C

DUPONT DE NEMOURS (E. I.) AND CO., AIKEN, S. C. SAVANNAH RIVER LAB.
Changes in Water Chemistry and Primary Productivity of a Reactor Cooling Reservoir (Par Pond),
W76-10290 9-19 5C

DUQUESNE UNIV., PITTSBURGH, PA. SCHOOL OF LAW.
Pennsylvania Public Trust Doctrine: Its Use as a Restraint on Government,
W76-07361 9-14 6E

DURHAM ASSOCIATES, INC., MILFORD, N. H.
Oil Spillage Monitoring, Sampling and Recovery Systems,
W76-10382 9-19 5B

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An Assessment of Possible Pollution Effects Over a Century of the Benthic Marine Algae of Co. Durham, England,
W76-09595 9-18 5C

Pollution of the Mediterranean Around Naples,
W76-11713 9-22 5B

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Effect of Separation Angle on Vortex Streets,
W76-03116 9-07 8B

DYNEK CORP., PORT CHESTER, N.Y. (ASSIGNEE).
Domestic Water Filtration Apparatus,
W76-09862 9-18 5F

EARTH SATELLITE CORP., WASHINGTON, D.C. GEOSCIENCES AND ENVIRONMENTAL APPLICATIONS DIV.
An Aerial-Photogrphic Analysis of the Environ'mental Impact of Clay Mining in New Jersey,
W76-04092 9-09 5A

EARTHVIEW, INC., TOLEDO, OHIO.
Monitoring Ground-Water Quality Near a Sanitary Landfill,
W76-06684 9-13 5A

EAST AFRICAN AGRICULTURE AND FORESTRY RESEARCH ORGANIZATION, NAIROBIA (KENYA).
The Introduced Asiatic Clam, Corbicula, in Central Arizona Reservoirs,
W76-07251 9-14 2I

EAST BAY MUNICIPAL UTILITY DISTRICT, OAKLAND, CALIF.
Latex Waste and Treatment,
W76-03089 9-07 5D

Latex Paint Wastes--Municipal Charges and Treatment,
W76-03199 9-07 5D

Utilization of Wastewater Sludge for Agricultural Soil Enrichment,
W76-09219 9-17 5D

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The Effects of Stream Channelization of the Distribution of Nitrients and Metals,
W76-00501 9-02 5B

The Submersed Macrophytes of the Pamlico River Estuary, North Carolina,
W76-06809 9-14 5C

Organic Matter Losses from Four Watersheds in the Humid Tropics,
W76-12428 9-23 5B

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Perspective 75.
W76-05651 9-12 6B

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W76-09662 9-18 5B

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A Study of Oxygen-Nitrogen Balance in Waterbloom Outbreaks,
W76-04234 9-09 5C

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W76-00681 9-02 5E

EAST WORCESTERSHIRE WATERWORKS CO., BROMSGROVE (ENGLAND).
Modern Techniques of Waste Detection,
W76-09685 9-18 5F

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Additional Observations on the Effects of Strip Mining on Small-Stream Fishes in East-Central Kentucky,
W76-09468 9-18 5C

EASTERN MICHIGAN UNIV., YPSILANTI. DEPT. OF BIOLOGY.
Diel Changes in the Feeding Activity and Food Habits of the Spotfin Shiner, Notropis Spilopterus (Cope),
W76-10816 9-20 2I

EASTERN MUNICIPAL WATER DISTRICT, HEMET, CALIF.
Reverse Osmosis of Treated and Untreated Secondary Sewage Effluent,
W76-03351 9-07 5D

Reverse Osmosis of Treated and Untreated Secondary Sewage Effluent; Appendix A-2 and Appendix A-6,
W76-07061 9-14 5D

EASTERN REGIONAL RESEARCH LAB., PHILADELPHIA, PA.
Effect of Flocculants on the Sedimentation of Organic Solids in Tannery Unhairing Effluents,
W76-08164 9-16 5D

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Response of the Spokane River Periphyton Community to Primary Sewage Effluent and Continued Investigation of Long Lake,
W76-05468 9-11 5C

Primary Production Studies on a New Reservoir: Bighorn Lake-Yellowtail Dam, Montana, U.S.A.,
W76-05471 9-11 5C

EASTMAN KODAK CO., ROCHESTER, N.Y.
Ozonation of Photographic Processing Wastes,
W76-01667 9-04 5D

Silver in Photoprocessing Effluents,
W76-05732 9-12 5D

EASTMAN KODAK CO., ROCHESTER, N.Y. HEALTH AND SAFETY LAB.
Aerobic Photodegradation of FE(III)--Ethylenedineitrilo)Tetraacetate (Ferric Edta): Implications for Natural Waters,
W76-07096 9-14 5C

EASTMAN KODAK CO., ROCHESTER, N. Y. UTILITIES DIV.; AND EASTMAN KODAK CO., ROCHESTER, N. Y. WASTE DISPOSAL DEPT.
Secondary Plant Shoehorned into Small Space,
W76-07510 9-15 5D

EATON CORP., CLEVELAND, OHIO. (ASSIGNEE).
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W76-08210 9-16 5F

EBA ENGINEERING CONSULTANTS LTD. EDMONTON (ALBERTA).
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W76-00285 9-01 5A

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W76-09346 9-17 5G

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W76-08274 9-16 5D

EBASCO SERVICES INC., NEW YORK.
Exit of Ground Waters on Drainage Bound ries,
W76-08750 9-16

ECODYNE CORP., CHICAGO, ILL. (ASSIGNEE).
Water Treating Apparatus,
W76-05547 9-12

ECODYNE CORP., LINCOLNSHIRE, ILL. (ASSIGNEE).
Surface Skimming System,
W76-03512 9-08

Horizontal Flow Clarifier,
W76-07447 9-14

Sludge Removal System,
W76-09416 9-18

Clarifier Apparatus,
W76-10479 9-19

ECODYNE CORP., UNION, N. J.
Performance Histories of Boiler Feedwat Plants Highlight the Advantages of Reverse O mosis,
W76-02473 9-05

How to Meet Water Cleanup Deadlines,
W76-10862 9-20

ECODYNE CORP., UNION, N.J. GRAVER WATER DIV.
Industrial Application of Condensate Tre ment and Ion-Exchange Techniques,
W76-04776 9-10

ECODYNE CORP., UNION, N. J. INDUSTRIAL WASTE TREATMENT DIV.
Granular Media Filtration: A Positive Cost E fective Method to Prepare Wastewaters f Reuse by Removal of Suspended Solids,
W76-11262 9-21

Wastewater Recycle - The Proper Approach Evaluation of Disposal Versus Reuse,
W76-11263 9-21

ECOLE NATIONALE SUPERIEURE DES MINES DE PARIS, FONTAINE-BLEAU (FRANCE). CENTER FOR GEOLOGICAL INFORMATION.
Options of Development and Integrat Management of Water Resources,
W76-12538 9-23

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Construction and Utilization of Compl Mathematical Models in the Planning of t Optimal Development of Large Hydrograph Systems and River Basins,
W76-12566 9-23

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Disaggregation Models in Hydrology Revisite
W76-09573 9-18

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Evaluation of Stochastic Models Describi Movement of Sediment Particles on Riverbed
W76-02959 9-06

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76-07229 9-14 8B

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Lake Population: The Intha of Lake Inle. outhern Shan States, Burma), (In French),
76-09361 9-17 2H

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lot-Scale, High-Rate Biological Denitrifica-n,
76-00238 9-01 5D

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76-09432 9-18 5D

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ltipurpose River Project Planning in the wer Mekong Basin: A Decision Approach,
76-05762 9-12 6A

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76-07133 9-14 4A

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76-11970 9-22 6B

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76-12536 9-23 7C

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W76-12535 9-23 6A

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W76-04563 9-10 5G

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W76-07160 9-14 5G

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An Economic Appraisal of Alternative Dairy Waste Management Systems Designed for Pollution Control,
W76-10547 9-20 5D

ECONOMIC RESEARCH SERVICE, MADISON, WIS. FARM PRODUCTION ECONOMICS DIV.
Economic Evaluation of Liquid Manure Disposal Systems for Dairy Cattle,
W76-12357 9-23 5G

ECONOMIC RESEARCH SERVICE, UPPER DARBY, PA.
A Framework for Evaluating Institutional and Socio-Economic Issues of Land Treatment of Waste Water,
W76-08681 9-16 5D

ECONOMIC RESEARCH SERVICE, UPPER DARBY, PA. NATURAL RESOURCE ECONOMICS DIV.
A Framework for Evaluating Institutional and Socio-Economic Issues of Land Treatment of Waste Water,
W76-06320 9-13 5G

ECONOMIC RESEARCH SERVICE, WASHINGTON, D.C.
Economic Impact of Selected Pollution Control Measures on Beef and Dairy Farms,
W76-00470 9-01 5G

ECONOMIC RESEARCH SERVICE, WASHINGTON, D. C. NATIONAL ECONOMIC ANALYSIS DIV.
Alternatives for Reducing Water Pollution in Cattlehide Processing and Tanning,
W76-08285 9-16 3E

ECONOMIC RESEARCH SERVICE, WASHINGTON, D. C. NATURAL RESOURCE ECONOMICS DIV.
Economics of In-Plant Waste Management in Food Processing,
W76-08300 9-16 3E

ECONOMIC RESEARCH SERVICE, WASHINGTON, D. C., NATURAL RESOURCES ECONOMIC DIV.
Water Rights Laws in the Nineteen Western States, Vol 11,
W76-03916 9-08 6E

ECOSYSTEMS INTERNATIONAL, INC., GAMBRILLS, MD.
Impact of Remote Sensing Upon the Planning, Management, and Development, and Development of Water Resources,
W76-08536 9-16 6B

EDDY (AMOS), INC., NORMAN, OKLA.
Optimal Sampling and Objective Analysis,
W76-06609 9-13 2B

EDGENOESSISCHE TECHNISCHE HOCHSCHULE, ZURICH (SWITZERLAND). INST. FOR AQUATIC SCIENCES AND WATER POLLUTION CONTROL.
Comparison of the Chemical Effects of Oxone and of Irradiation on Organic Impurities in Water,
W76-09535 9-18 5D

Costs and Hygienic Necessity of Sewage Sludge Pasteurization in Switzerland,
W76-09542 9-18 5D

EDGEWOOD ARSENAL, ABERDEEN PROVING GROUND, MD. BIOMEDICAL LAB.
Effects of Discharge from a Dredge Spoils Site on Carroll Island, Maryland,
W76-09647 9-18 5C

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W76-10056 9-19 5C

EDGEWOOD ARSENAL, ABERDEEN PROVING GROUND, MD. BIOMEDICAL LABS.
A New Measure of Biotic Similarity Between Samples and its Applications with a Cluster Analysis Program,
W76-00325 9-01 7B

EDGEWOOD ARSENAL ABERDEEN PROVING GROUND, MD. CHEMICAL LAB.
Investigation Related to Prevention and Control of Water Pollution in the U.S. TNT Industry,
W76-02441 9-05 5D

EDINBURGH CITY ENGINEER'S DEPT. (SCOTLAND).
Design of Long Interceptor Sewers,
W76-01047 9-03 5D

EDINBURGH CORP., (SCOTLAND).
Edinburgh's Sewage-Treatment and Disposal Scheme,
W76-05794 9-12 5D

EDINBURGH UNIV. (SCOTLAND). DEPT. OF FORESTRY AND NATURAL RESOURCES.
The Effect of Wind on Grasses: I. Cuticular and Stomatal Transpiration,
W76-07425 9-14 2D

EDINBURGH UNIV., (SCOTLAND). DEPT. OF GEOPHYSICS.
Magnetic Susceptibility of Lake Sediments,
W76-03311 9-07 2J

EDINBURGH UNIV. (SCOTLAND). GRANT INST. OF GEOLOGY.
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W76-08829 9-17 2L

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Effects of Irrigation: Mulch and N-Fertilizers on Yield Components of Arabica Coffee in Kenya,
W76-11456 9-21 3F

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A Salt Marsh Microcosm: An Experimental Unit for Marine Pollution Studies,
W76-09318 9-17 5C

EDWARD I. MEYER MEMORIAL HOSPITAL, BUFFALO, N.Y.

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Pollution Control and Suggested Disposal Guidelines for Clinical Chemistry Laboratories,
W76-05097 9-11 5G

EDWARDS AND JONES LTD., STOKE-ON-TRENT (ENGLAND).
Modern Filter Press Technology for Sewage Sludge Dewatering,
W76-09021 9-17 5D

EG AND G, BIONOMICS, WAREHAM, MASS.
Chronic Toxicity of Atrazine to Selected Aquatic Invertebrates and Fishes,
W76-10517 9-20 5C

Chronic Toxicity of Lindane to Selected Aquatic Invertebrates and Fishes,
W76-10895 9-20 5C

EG AND G, INC., DURANGO, COLO. ENVIRONMENTAL SERVICES OFFICE.
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W76-06564 9-13 3B

EG AND G, INC., LAS VEGAS, NEV.
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W76-06659 9-13 2C

Soil Moisture Survey Experiment at Luverne Minnesota, Date of Survey: May 12, 1975,
W76-06663 9-13 2G

Soil Moisture Survey Experiment at Phoenix, Arizona, Date of Survey: March 18, 1975,
W76-06664 9-13 2G

Snow Water Equivalent Surveys of the Souris River Basin,
W76-06665 9-13 2C

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W76-05864 9-12 5D

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W76-05865 9-12 5D

Design and Testing of a Prototype Automatic Sewer Sampling System,
W76-12872 9-24 5A

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Stomatal Movement and Water Relations in Crops: 2. Stomatal Behavior of Tobacco Leaves of Different Ages and the Influence of Soil Water Shortage, (In Japanese),
W76-02252 9-05 2I

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Gas Chromatographic (ECD) Deterimination of Coprostanol and Cholesterol as Indicators of Fecal Pollution in Water, (In Japanese),
W76-00602 9-02 5A

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Tidal Residual Circulations in the Hydraulic Model,
W76-10431 9-19 2L

EIDEGENOESSISCHE ANSTALT FUER WASSERVERSORGUNG, ABWASSERREINIGUNG UND GEWAESSERSCHUTZ, ZURICH (SWITZERLAND).
Ozonation of Water: Role of Hydroxyl Radicals as Oxidizing Intermediates,
W76-03703 9-08 5F

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Aqueous Radiation Chemistry in Relation to Waste Treatment, An Introductory Review,
W76-09529 9-18 5D

Sedimentation and Phosphorus Balance in Lake Lucerne (Horw Bay) and in the Rotsee, (In German),
W76-09790 9-18 5C

The Effects of NTA on the Growth of Phytoplankton with Particular Consideration Given to Iron as a Microelement,
W76-11578 9-21 5C

Effect of Treated Sewage Effluents on Phytoplankton in Lakes, (In German),
W76-11579 9-21 5C

EIDGENOESSISCHE ANSTALT FUER WASSERVERSORGUNG, ABWASSERREINIGUNG UND GEWAESSERSCHUTZ, ZURICH (SWITZERLAND); AND EIDGENEOSSISCHE TECHNISCHE HOCHSCHULE, ZURICH (SWITZERLAND). GAS CHROMATOGRAPHY LAB.
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W76-07956 9-15 5A

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Quantitative Stereological Analysis of Grain Bonds in Snow,
W76-07778 9-15 2C

The Relationship Between the Visco-Elastic and Structural Properties of Fine-Grained Snow,
W76-07779 9-15 2C

EIDGENOESSISCHE INSTITUT FUER SCHNEEUND LAWINENFORSCHUNG, DAVOS (SWITZERLAND).
Snowmelt-Runoff Model for Stream Flow Forecasts,
W76-08131 9-16 2E

EIDGENOESSISCHE TECHNISCHE HOCHSCHULE, ZURICH (SWITZERLAND).
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W76-00620 9-02 5C

The Costs of Biological Waste Water Treatment (Die Kosten Der Biologischen Abwasserreinigung),
W76-05044 9-11 5D

The Role of Hydroxyl Radical Reactions in Ozonation Processes in Aqueous Solutions,
W76-10036 9-19 5D

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W76-07065 9-14 2C

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A Hydrophobic Membrane Probe for Tota Pressure and Partial Pressure Measurements i the Soil Atmosphere,
W76-01480 9-03 2C

EIDGENOESSISCHES AMT FUER WASSERWIRTSCHAFT, BERN (SWITZERLAND).
The Swiss Federal Rating Station for Curren Meters. The New Station of 1952,
W76-04327 9-09 9

EIDGENOESSISCHES INSTITUT FUER REAKTORFORSCHUNG, WUERENLINGEN (SWITZERLAND).
A Two-Dimensional Hydrodynamic Model fo Cooling-Tower Plumes,
W76-08851 9-17 5

Fission Product Gamma-Ray Sources as an A ternative to Cobalt-60 Sources for Sewag Sludge Sterilization,
W76-09541 9-18 5

EIDGENOSSISCHE TECHNISCHE HOCHSCHULE, ZURICH (SWITZERLAND). TECHNISCH-CHEMISCHES LABORATORIUM
Dynamic Modelling and Control Simulation o a Biological Wastewater Treatment Process,
W76-10018 9-19 5

EIDGENOSSISCHE TECHNISCHE HOCHSHULE, ZURICH (SWITZERLAND). GEOGRAPHISCHES INSTITUT.
Temperature Measurement of Ice and Wat Surfaces in the North Water Area Using a Airborne Radiation Thermometer,
W76-05389 9-11 7

EKONO INC., BELLEVUE, WASH.
Economics and Energy: Reducing Mill Energ Consumption and Effluent Volume,
W76-09299 9-17 5

EL PASO NATURAL GAS CO., TEX.
Water and Energy Required to Operate Co Gasification Facilities and Waste Water Trea ment Requirements,
W76-00751 9-02 6

ELECTRIC POWER RESEARCH INST., PALO ALTO, CALIF.
Entrainment and Intake Screening, Proceedin of the Second Entrainment and Intake Scree ing Workshop.
W76-08628 9-16

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W76-08875 9-17 5

CTRICITY COUNCIL RESEARCH TRE, CAPENHURST (ENGLAND).
ie Recovery of Metals from Rinse Waters in hemelec' Electrolytic Cells,
76-01677 9-04 5D

CTRODICS, INC., PHILADELPHIA, PA. IGNEE).
ocess for the Electrolytic Reclamation of ent Etching Fluids,
76-08471 9-16 5D

CTROLYSIS POLLUTION CONTROL INC., NEAPOLIS, MINN. (ASSIGNEE).
emoval of Immiscible Fluids from Water Surces and Lake Beds,
76-05984 9-12 5G

CTRONIC ASSOCIATES, INC., WEST G BRANCH, N. J.
mputational Methods Applicable to the Coued VTE/MSF Distillation System,
76-06253 9-13 3A

EM-SPIGERVERKET A/S, OSLO RWAY). (ASSIGNEE).
pparatus for Purification of Industrial Waste ater,
76-09861 9-18 5D

PRESA NACIONAL DEL PETROLEO, NCON, CHILE.
mp Design for Oil/Water Separators,
76-04022 9-09 5D

RGOPROJEKT, BELGRADE, GOSLAVIA).
aste-Heat Disposal from Steam Electric ants with Reference to the Stochastic Nature Some Environmental Conditions and to ermal Pollution Control Regulations,
76-08865 9-17 5G

RGY AND ENVIRONMENTAL ANALYSIS, ., ARLINGTON, VA.
ie Water Pollution Control Act of 1972, Initutional Assessment, The Permit Program.
76-08193 9-16 5G

RGY AND RESEARCH AND ELOPMENT ADMINISTRATION, SHINGTON, D. C.
haracteristics of Coastal Circulation Affecting e Transport and Dispersion of Material eleased from the Nuclear Industry,
76-09504 9-18 5C

RGY MANAGEMENT GROUP, NEW RK.
olid Waste, Sewage, and Energy - A Symotic Approach,
76-11657 9-22 5D

RGY RESEARCH AND DEVELOPMENT MINISTRATION, AMES, IOWA; AND AMES ., IOWA.
emoval of Copper and Iron Prior to Water ardness Titration,
76-05716 9-12 5A

RGY RESEARCH AND DEVELOPMENT MINISTRATION, WASHINGTON, D.C. SIGNEE).
ethod for Removing and Decolorizing Aqueus Waste Effluents Containing Dissolved or ispersed Organic Matter,
76-02264 9-05 5D

paration by Solvent Extraction,
76-09061 9-17 5D

ENERGY RESOURCES CO., INC., CAMBRIDGE, MASS.
A Preliminary Design for a National Environmental Census,
W76-10642 9-20 5A

Economic Evaluation of the Promulgated Interim Primary Drinking Water Regulations,
W76-12821 9-24 5G

Economic Evaluation of the Proposed Interim Primary Drinking Water Regulations,
W76-12822 9-24 5G

ENERGY SYSTEMS, INC., NEW YORK. (ASSIGNEE).
Radiation Treatment Method and Apparatus for Decontamination of Polluted Fluid,
W76-01136 9-03 5D

ENGINEERING ENTERPRISES, INC., NORMAN, OKLA.
Subsurface Brine Disposal - Be Reasonable,
W76-09261 9-17 5B

ENGINEERING-SCIENCE, INC., AUSTIN, TEX.
The Applicability of Carbon Adsorption in the Treatment of Petrochemical Wastewaters,
W76-02435 9-05 5D

Water Pollution Abatement Technology: Costs and Capabilities Petroleum Refining Industry, Part 1, Chapters -V.
W76-08190 9-16 5G

Water Pollution Abatement Technology: Costs and Capabilities, Petroleum Refining Industry, Part 2, Chapters VI - IX.
W76-08191 9-16 5G

ENGINEERING-SCIENCE, INC., BERKELEY, CALIF.
Treatment of Combined Sewer Overflows by Dissolved Air Flotation,
W76-02074 9-05 5D

Input of Petroleum to the Marine Environment Directly from the Atmosphere,
W76-05138 9-11 5B

Petroleum Inputs to the Marine Environment from Land Sources,
W76-05140 9-11 5B

Ocean Outfall Disposal Systems,
W76-11226 9-21 5D

Development and Application of a Water Resource Allocation Model,
W76-13168 9-24 5G

ENGINEERING-SCIENCE, INC., CINCINNATI, OHIO.
Discussion (of, 'Interdisciplinary Studies of Large Reservoirs in Africa,' by G. F. White),
W76-00066 9-01 4A

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Water Waves Generated by Landslides in Reservoirs,
W76-03382 9-07 2H

ENIVRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C. EFFLUENT GUIDELINES.
Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Textile Mills Point Source Category,
W76-01207 9-03 5D

ENTE NAZIONALE PER L'ENERGIA ELETTRICA, MILAN (ITALY).
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W76-09505 9-18 5C

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Evaluation of the Thermal Effects of a Nuclear Power Plant,
W76-09496 9-18 5C

Effect of Entrainment in Power Station Cooling Systems Studied Using Periphytic Communities,
W76-09498 9-18 5C

ENTE NAZIONALE PER L'ENERGIA ELETTRICA, ROME (ITALY). DIREZIONE DELLA COSTRUZIONI.
Regulations and Environmental Investigations Associated with Nuclear Station Thermal Discharges,
W76-08886 9-17 5G

ENVIREX INC., MILWAUKEE, WIS.
Biological Treatment of Combined Sewer Overflow at Kenosha, Wisconsin,
W76-00694 9-02 5D

Engineers Can Exert Process Control Over Digester Inputs,
W76-05807 9-12 5D

ENVIREX INC., MILWAUKEE, WIS. ENVIRONMENTAL SCIENCES DIV.
An Application of the Storm Water Management Model,
W76-09738 9-18 5D

ENVIREX INC., WAUKESHA, WIS.
Get the Most from the Final Clarifiers,
W76-03687 9-08 5D

ENVIREX, INC., WAUKESHA, WIS. (ASSIGNEE).
Submerged Air Release Device Particularly for Sewage Treatment,
W76-02610 9-06 5D

Submerged Air Release Device Particularly for Sewage Treatment,
W76-05581 9-12 5D

ENVIREX, INC., WAUKESHA, WIS. WATER QUALITY CONTROL DIV.
How Does Tank Geometry Affect the Oxygen Transfer Rate of Mechanical Surface Aerators.
W76-05593 9-12 5D

Designing Microscreens. Here's Some Help,
W76-10033 9-19 5D

ENVIRO CONTROL, INC., ROCKVILLE, MD.
Shipboard Oil-In-Water Content Monitor Based on Light Scattering at Ninety Degrees,
W76-04926 9-10 5A

Wastewater Flow Reduction in the Home,
W76-06280 9-13 3D

Assessment of the Benefits of Environmental Remote Sensing,
W76-10670 9-20 5A

Study of Federal Water Quality Monitoring Efficiency,
W76-12697 9-24 5G

ENVIROGENICS CO., EL MONTE, CALIF.
Operation of the 3-Stage Flash Devices Plant, 1969-1972,
W76-07111 9-14 3A

ENVIRONEMENTAL PROTECTION AGENCY, WASHINGTON, D. C. EFFLUENT GUIDELINES DIV.
Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Building, Construction, and Paper Segment of the Asbestos Manufacturing Point Source Category,
W76-01217 9-03 5G

ENVIRONICS, INC. HUNTINGTON BEACH, CALIF.
Electrochemical Carbon Regeneration,
W76-00250 9-01 5D

ENVIRONMENT CANADA, VICTORIA, B. C. (CANADA). MARINE SCIENCES DIRECTORATE, PACIFIC REGION.
The Alert Bay Oil Spill: A One-Year Study of the Recovery of a Contaminated Bay,
W76-11463 9-21 5C

ENVIRONMENT IMPROVEMENT, INC., TORRANCE, CALIF. (ASSIGNEE).
Water Purification Process and Apparatus,
W76-09059 9-17 5D

ENVIRONMENT ONE CORP., SCHENECTADY, N. Y. (ASSIGNEE).
Process and Equipment for Automatic Chemical-Biological Wastewater Treatment with Provisions for Recycle and Reuse,
W76-05955 9-12 5D

ENVIRONMENT REPORTER, WASHINGTON, D.C.
How to Communicate Complex Issues to the Public,
W76-03848 9-08 5G

ENVIRONMENTAL ASSOCIATES, CORVALLIS, OREG.
Water Pollution Abatement Technology: Costs and Capabilities, Canned and Preserved Fruits and Vegetables,
W76-08187 9-16 5G

ENVIRONMENTAL DYNAMICS, INC., LOS ANGELES, CALIF.
Environmental Impact Assessment, Water Quality Analysis, Utah Lake - Jordan River Basin.
W76-11788 9-22 5G

ENVIRONMENTAL HEALTH LAB., KELLEY AFB, TEX.
Acute Toxicity of Phos-Check (Trade Name) 202 and Diammonium Phosphate to Fathead Minnows,
W76-12334 9-23 5C

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W76-04917 9-10 5C

Water Pollution Survey, Moody Air Force Base, Georgia,
W76-05076 9-11 5D

Biodegradability and Toxicity Studies of Photographic Processing Wastes at Offutt AFB, Nebraska,
W76-10053 9-19 5C

ENVIRONMENTAL HEALTH LAB., MCCLELLAN AFB, CALIF.
Wastewater Treatment Evaluation, Mather Air Force Base, California,
W76-05801 9-12 5D

Wastewater Treatment Evaluation, Mt. Hebo Air Force Station, Oregon,
W76-05802 9-12 5D

ENVIRONMENTAL IMPACT CENTER, INC., NEWTON, MASS.
Highway and Sewer Impacts on Urban Development,
W76-02717 9-06 5C

Secondary Impacts of Transportation and Wastewater Investments: Research Results,
W76-02757 9-06 5C

Secondary Effects of Public Investments in Highways and Sewers.
W76-09778 9-18 5G

ENVIRONMENTAL LAW INST., WASHINGTON, D.C.
The Future of Environmental Defense,
W76-01961 9-04 6G

Economic Disincentives for Pollution Control: Legal, Political, and Administrative Dimensions,
W76-02619 9-06 5G

Protecting Public Health from Hazardous Substances: Federal Regulation of Environmental Contaminants,
W76-05185 9-11 6G

The Water Pollution Control Act of 1972, Institutional Assessment, Enforcement, Volume I,
W76-10574 9-20 5G

The Water Pollution Control Act of 1972, Institutional Assessment, Enforcement Volume II,
W76-10575 9-20 5G

ENVIRONMENTAL MONITORING AND SUPPORT LAB., CINCINNATI, OHIO.
Radiochemical Methodology for Drinking Water,
W76-03635 9-08 5A

Analytical Quality Assurance for Trace Organics Analysis by Gas Chromatography/Mass Spectrometry,
W76-06648 9-13 5A

Validation of Environmental Measurement Methodology,
W76-11614 9-21 5A

Recommended Design of Sample Intake Systems for Automatic Instrumentation,
W76-12871 9-24 5A

ENVIRONMENTAL MONITORING AND SUPPORT LAB., LAS VEGAS, NEV.
Sample Tracking Data Management System,
W76-11611 9-21 7C

ENVIRONMENTAL MONITORING AND SUPPORT LAB., LAS VEGAS, NEV. MONITORING SYSTEMS RESEARCH AND DEVELOPMENT DIV.
Tritium Fractionation in Plants,
W76-03632 9-08 5A

Development of a Biological Monitoring Network - A Test Case - Suitability of Livestock and Wildlife as Biological Monitors for Organophosphorus Contaminants,
W76-03633 9-08 5A

ENVIRONMENTAL PREDICTION RESEARCH FACILITY, MONTEREY, CALIF.
Island Barrier Effects on Sea State as Revealed by a Numerical Wave Model and DMSP Satellite Data,
W76-09559 9-18 2L

ENVIRONMENTAL PROTECTION AGENCY, ADA, OKLA. ROBERT S. KERR ENVIRONMENTAL RESEARCH LAB.
Kinetic Model For Orthophosphate Reactions in Mineral Soils,
W76-02073 9-05 5D

ENVIRONMENTAL PROTECTION AGENCY, ANCHORAGE, ALASKA. ALASKA OPERATIONS OFFICE.
Water Quality Model of the Lower Fox River, Wisconsin,
W76-11316 9-21 5B

ENVIRONMENTAL PROTECTION AGENCY, ANNAPOLIS, MD. ANNAPOLIS FIELD OFFICE.
Mathematical Model Studies of Water Quality in the Potomac Estuary,
W76-01497 9-03 5B

Effects of Ocean Disposal Activities on Mid-Continental Shelf Environment Off Delaware and Maryland,
W76-03175 9-07 5C

Summary and Conclusions: Nutrient Transport and Accountability in the Lower Susquehanna River Basin,
W76-06575 9-13 5B

ENVIRONMENTAL PROTECTION AGENCY, ANNAPOLIS, MD. ANNAPOLIS SCIENCE CENTER.
Environmental Survey of Two Interim Dumpsites--Middle Atlantic Bight.
W76-12875 9-24 5B

ENVIRONMENTAL PROTECTION AGENCY, ATHENS, GA. SOUTHEAST ENVIRONMENTAL RESEARCH LAB.
Dynamic Behavior of Vinyl Chloride in Aquatic Ecosystems,
W76-07247 9-14 5C

Colorimetric Determination of Paraquat Residues in Soil and Water,
W76-12149 9-22 5A

Isolating Organic Water Pollutants: XAD Resins Urethane Foams, Solvent Extraction,
W76-12873 9-24 5A

ENVIRONMENTAL PROTECTION AGENCY, ATHENS, GA. SURVEILLANCE AND ANALYSIS DIV.
The Relationship Between Substrate Content, Water Quality, Actinomycetes, and Musty Odors in the Broad River Basin,
W76-05478 9-11 5C

Application of Water Quality Models to Finger Fill Canals,
W76-09981 9-18 5B

Ecosystems Analysis of the Big Cypress Swamp and Estuaties,
W76-10046 9-19 6G

IRONMENTAL PROTECTION AGENCY,
ANTA, GA. REGION IV.
valuation of State Drinking-Water-Quality rveillance Programs,
76-00634 9-02 5F

ean Outfalls and Other Methods of Treated aste-Water Disposal in Southeast Florida, nvironmental Impact Statement).
76-01413 9-03 5D

aluating State Drinking Water Quality Surillance Programs,
76-03430 9-07 5F

blic Participation in Water Pollution Control,
76-03835 9-08 5G

lm Beach County Sewage Treatment Improvement Program -- Florida.
76-04656 9-10 5D

aluation of State Drinking-Water-Quality rveillance Programs,
76-05233 9-11 5G

tus of the NPDES (National Pollutant scharge Elimination System) in the utheast,
76-11371 9-21 5G

vironmental Assessment of Marine Outfalls,
76-11615 9-21 5E

ep Well Disposal of Wastewater,
76-11617 9-21 5E

IRONMENTAL PROTECTION AGENCY,
TON, MASS.
rksrew Sanctuary: Use of the Market for servation,
76-03928 9-08 6G

IRONMENTAL PROTECTION AGENCY,
CAGO, ILL. CENTRAL REGIONAL LAB.
tomated Method for the Determination of tal and Inorganic Mercury in Water and ste Water Samples,
76-04756 9-10 5A

cromethods for the Determination of Nonfilable and Filterable Residues,
76-11633 9-22 5A

RONMENTAL PROTECTION AGENCY,
INNATI, OHIO.
w to Analyze Infiltration/Inflow,
76-00566 9-02 5D

estigation of the Orion Research Cyanide nitor,
76-00677 9-02 5A

erview of Problems Associated with Inoric Contaminants in Drinking Water,
76-03429 9-07 5F

nkton Analysis Training Manual.
76-09782 9-18 5C

ent Developments in the Identification of phalts and Other Petroleum Products,
76-10396 9-19 5A

ject Cure,
76-11661 9-22 5D

imating the Reliability of Advanced Waste atment,
76-12904 9-24 5D

ENVIRONMENTAL PROTECTION AGENCY, CINCINNATI, OHIO. ADVANCED WASTE TREATMENT RESEARCH LAB.

Interim Report on Task Force on Phosphate Removal Sludges,
W76-00248 9-01 5D

ENVIRONMENTAL PROTECTION AGENCY, CINCINNATI, OHIO. MUNICIPAL PERMITS AND OPERATIONS DIV.

Instrumental Analysis of Chemical Pollutants, Training Manual,
W76-02395 9-05 5A

ENVIRONMENTAL PROTECTION AGENCY, CINCINNATI, OHIO. OFFICE OF WATER PROGRAM OPERATIONS.

Control of Oil and Other Hazardous Materials,
W76-05073 9-11 5G

Audiovisual Instructional Units for Water Pollution Control Training Programs,
W76-05074 9-11 5G

ENVIRONMENTAL PROTECTION AGENCY, CINCINNATI, OHIO. OFFICE OF WATER PROGRAMS.

Water Quality Studies.
W76-00513 9-02 5G

Estuary Studies,
W76-04319 9-09 5B

ENVIRONMENTAL PROTECTION AGENCY, CINCINNATI, OHIO. OFFICE OF WATER PROGRAMS OPERATIONS.

Freshwater Biology and Pollution Ecology: Training Manual.
W76-07611 9-15 5C

ENVIRONMENTAL PROTECTION AGENCY, CINCINNATI, OHIO. WATER SUPPLY RESEARCH LAB.

Criteria Development for National Drinking Water Standards,
W76-00103 9-01 5F

Nitrate Removal by Anion-Exchange Resins,
W76-01562 9-04 5D

Cost and Pricing Relationships in Water Supply,
W76-07145 9-14 3D

ENVIRONMENTAL PROTECTION AGENCY, COLUMBUS, OHIO. DIV. OF WASTE MANAGEMENT AND ENGINEERING.

Significance of Trace Metals and Nitrates in Sludge Soils,
W76-06307 9-13 5E

ENVIRONMENTAL PROTECTION AGENCY, DALLAS, TEX. SURVEILLANCE AND ANALYSIS DIV.

Industrial Pollution of the Lower Mississippi River in Louisiana.
W76-01532 9-04 5B

ENVIRONMENTAL PROTECTION AGENCY, EDISON, N.J. SURVEILLANCE AND ANALYSIS DIV.

Boone Creek Oil Spill,
W76-00147 9-01 5C

ENVIRONMENTAL PROTECTION AGENCY, EDISON, N.J. WASTEWATER RESEARCH DIV.

Urban Runoff and Combined Sewer Overflow, (Literature Review),
W76-12627 9-23 5D

ENVIRONMENTAL PROTECTION AGENCY, FAIRVIEW PARK, OHIO.

Lake Erie, Ohio, Pennsylvania, New York Intake Water Quality Summary 1972,
W76-07610 9-15 5A

ENVIRONMENTAL PROTECTION AGENCY, GROSS ILE, MICH. GROSS ILE LAB.

Modeling Chloride Distribution in Saginaw Bay,
W76-11312 9-21 5B

ENVIRONMENTAL PROTECTION AGENCY, GULF BREEZE, FLA. GULF BREEZE ENVIRONMENTAL RESEARCH LAB.

A Salinity Controller for Flow-Through Bioassays,
W76-01929 9-04 5A

Problems Associated With Low-Solubility Compounds in Aquatic Toxicity Tests: Theoretical Model and Solubility Characteristics of Aroclor 1254 in Water,
W76-03052 9-07 5A

Microbial-Malathion Interactions in Artificial Salt-Marsh Ecosystems: Effect and Degradation,
W76-03634 9-08 5B

Mirex Residues in Selected Estuaries of South Carolina: June 1972,
W76-05954 9-12 5A

An Enzootic Nuclear Polyhedrosis Virus of Pink Shrimp: Ultrastructure, Prevalence, and Enhancement,
W76-07695 9-15 5C

River Pollution by Anticholinesterase Agents,
W76-08782 9-17 5C

Aroclor 1016: Toxicity to and Uptake by Estuarine Animals,
W76-10340 9-19 5C

ENVIRONMENTAL PROTECTION AGENCY, GULF BREEZE, FLA. GULF BREEZE LAB.

Effects of Aroclor 1016 on Embryos, Fry, Juveniles, and Adults of Sheephead Minnows (Cyprinodon Variegatus),
W76-02389 9-05 5C

ENVIRONMENTAL PROTECTION AGENCY, JOHNS ISLAND, S. C. OFFICE OF RESEARCH AND DEVELOPMENT.

Environmental Protection Agency's Role, Interests, and Responsibilities with Respect to the Outer Continental Shelf Development,
W76-11479 9-21 6G

ENVIRONMENTAL PROTECTION AGENCY, KANSAS CITY, KANS. SURVEILLANCE AND ANALYSIS DIV.

An Evaluation of Automatic Wastewater Compositors,
W76-10652 9-20 5A

ENVIRONMENTAL PROTECTION AGENCY, KANSAS CITY, KANS. WATER QUALITY LAB.

Progress Report: Blue Springs Lagoon Study, Blue Springs, Missouri,
W76-05323 9-11 5D

ENVIRONMENTAL PROTECTION AGENCY, KANSAS CITY, MO.

Efficiency of Heavy Metals Removal in Municipal Sewage Treatment Plants,
W76-08008 9-15 5D

ENVIRONMENTAL PROTECTION AGENCY, KANSAS CITY, MO. REGION VII.
Quality Control Starts at the Pipe,
W76-03694 9-08 5A

ENVIRONMENTAL PROTECTION AGENCY, LAS VEGAS, NEV.
Design of Pollutant Oriented Integrated Monitoring Systems,
W76-11238 9-21 7B

ENVIRONMENTAL PROTECTION AGENCY, LAS VEGAS, NEV. OFFICE OF RESEARCH AND DEVELOPMENT.
An Improved Model for Analysis of Air and Water Pollution Data,
W76-11606 9-21 5B

ENVIRONMENTAL PROTECTION AGENCY, MONTGOMERY COUNTY, MD. STORM WATER MANAGEMENT SECTION.
Watershed Management and Sediment Control in Montgomery County,
W76-09748 9-18 4D

ENVIRONMENTAL PROTECTION AGENCY, NEW YORK. CARIBBEAN CONSTRUCTION GRANTS BRANCH.
Operation and Impact of NPDES in Region II, Part I,
W76-10005 9-19 5G

Operation and Impact of NPDES in Region II, Part 2,
W76-13059 9-24 5G

ENVIRONMENTAL PROTECTION AGENCY, NEW YORK. REGION II.
Pretreatment and Ultimate Disposal of Wastewater Solids,
W76-05079 9-11 5D

EPA's Position on Ocean Disposal in the New York Bight,
W76-05084 9-11 5E

Documentation for ES001. A Steady-State, One Dimensional, Estuarine Water Quality Model,
W76-11460 9-21 5B

ENVIRONMENTAL PROTECTION AGENCY, PHILADELPHIA, PA. REGION III.
Upgrading and Expansion of the WSCC Piscataway Wastewater Treatment Facility to 30 MGD AWT, Prince George's County, Maryland, Final Environmental Impact Statement.
W76-00249 9-01 5D

Valley Forge Area Wastewater Treatment Facility, Chester County, Pennsylvania, Final Environmental Impact Statment.
W76-00508 9-02 5D

Land Application of Wastewater.
W76-11231 9-21 5D

ENVIRONMENTAL PROTECTION AGENCY, REGION VII, KANSAS CITY, MO.
Performance of Automatic Wastewater Compositions,
W76-03698 9-08 5A

ENVIRONMENTAL PROTECTION AGENCY, RESEARCH TRIANGLE PARK, N.C.
Treatment of Sludge From Sewerage and Burnt Ashes,
W76-00244 9-01 5E

Scientific and Technical Assessment Report on Particulate Polycyclic Organic Matter.
W76-00682 9-02 5A

ENVIRONMENTAL PROTECTION AGENCY, RESEARCH TRIANGLE PARK, N.C. OFFICE OF AIR AND WATER PROGRAMS; AND ENVIRONMENTAL PROTECTION AGENCY, RESEARCH TRIANGLE PARK, N.C. OFFICE OF AIR QUALITY PLANNING AND STANDARDS.
Background Information for Proposed New Source Performance Standards: Asphalt Concrete Plants, Petroleum Refineries, Storage Vessels, Secondary Lead Smelters and Refineries, Brass or Bronze Ingot Production Plants, Iron and Steel Plants, Sewage Treatment Plants: Volume 2, Appendix: Summaries of Test Data.
W76-02543 9-06 5G

ENVIRONMENTAL PROTECTION AGENCY, RESEARCH TRIANGLE PARK, N.C. OFFICE OF AIR QUALITY PLANNING AND STANDARDS.
Engineering and Cost Study of the Ferroalloy Industry,
W76-04547 9-10 5G

ENVIRONMENTAL PROTECTION AGENCY, RESEARCH TRIANGLE PARK, N.C. OFFICE OF RESEARCH AND DEVELOPMENT.
Scientific and Technical Assessment Report on Manganese.
W76-01863 9-04 5A

Scientific and Technical Assessment Report on Vinyl Chloride and Polyvinyl Chloride.
W76-07249 9-14 5A

ENVIRONMENTAL PROTECTION AGENCY, ROCHESTER, N. Y.
IFYGL Stream Materials Balance Study,
W76-11429 9-21 5B

ENVIRONMENTAL PROTECTION AGENCY, SAN FRANCISCO, CALIF.
Evaluation of Wastewater Treatment Plants at Henderson, Nevada,
W76-07055 9-14 5D

Water Quality Data from Truckee and Carson Rivers. Pyramid Lake and Lahontan Reservoir, A Working Paper.
W76-10054 9-19 5C

ENVIRONMENTAL PROTECTION AGENCY, SAN FRANCISCO, CALIF. REGION IX.
Industry Waste Study. The Hawaii Sugar Industry Waste Study.
W76-01224 9-03 5B

ENVIRONMENTAL PROTECTION AGENCY, SAN FRANCISCO, CALIF. REGION IX; AND ENVIRONMENTAL PROTECTION AGENCY, SAN FRANSCISCO, CALIF. SURVEILLANCE AND ANALYSIS DIV.
Colorado River Bacteriological Survey: Parker Strip and Lake Havasu, May 25-29, 1973,
W76-04108 9-09 5B

ENVIRONMENTAL PROTECTION AGENCY, SAN JUAN, PUERTO RICO.
Puerto Rico: Along the Route of Water Reuse,
W76-11259 9-21 5D

Optimizing Flocculator Power Input,
W76-12525 9-23 5D

ENVIRONMENTAL PROTECTION AGENCY, SEATTLE, WASH. REGION X.
Pollution From Non-Point Sources,
W76-09232 9-17 5B

Some Practical Problems in Developing a Presenting Environmental Quality Indices the Public,
W76-11246 9-21 5

ENVIRONMENTAL PROTECTION AGENCY, SPRINGFIELD, ILL.
Design Criteria--Waste Treatment Plants a Treatment of Sewer Overflow,
W76-00769 9-02 5

ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C.
Ground Water Pollution from Subsurface E cavations: Part V, Other Types of Wells.
W76-00525 9-02 5

Ground Water Pollution from Subsurface E cavations. Part IX, Landfills.
W76-00526 9-02 5

Ground Water Pollution From Subsurface E cavations, Part X, Sewer Leakage.
W76-00527 9-02 5

Groundwater Pollution From Subsurface E cavations, Part XI, Tank and Pipeline Leakag
W76-00528 9-02 5

Managing the Environment,
W76-01597 9-04 6

Alabama; Navigabel Waters (Proposed Wat Quality Standards).
W76-02100 9-05 5

Phosphate Manufacturing Point Source Categ ry-Effluent Guidelines and Standards.
W76-02103 9-05 5

Plastics and Synthetics Manufacturing Poi Source Category,
W76-02104 9-05 5

A Suggested State Forest Practices A (Mechanism for Improving Water Quality o Forest Lands),
W76-03587 9-08 5

A New Approach to International Environme tal Cooperation; The NATO Committee on th Challenges of Modern Society,
W76-03594 9-08 5

Steam Electric Power Generating Point Sourc Category--Proposed Effluent Limitation Guidelines and Standards.
W76-03601 9-08 5

Meat Products Point Source Category--Sma Processor Subcategory; Effluent Limitation and Guidelines.
W76-03602 9-08 5

Meat Products and Rendering Processing Poin Source Category--Effluent Guidelines an Standards.
W76-03603 9-08 5

Grain Mills Manufacturing Point Sourc Category--Effluent Limitations and Guidelines.
W76-03604 9-08 5

Navigable Waters of the Commonwealth o Kentucky (Proposed Water Quality Standards).
W76-03930 9-08 5

Navigable Waters of State of Arizona.
W76-03931 9-08 5

Criteria for the Evaluation of Permit Applica tions (Ocean Dumping).
W76-03932 9-08 5

National Pollutant - Discharge Elimination System.
W76-04442 9-09 5G

Variance Procedures in Effluent Guidelines and Standards.
W76-04443 9-09 5G

Water Quality and Pollutant Source Monitoring.
W76-04444 9-09 5G

Glass Manufacturing Point Source Category--Proposed Effluent Limitations Guidelines and Standards of Performance and Pretreatment Standards.
W76-04445 9-09 5G

Nonferrous Metals Manufacturing Point Source Category (Effluent Limitations and Guidelines).
W76-04447 9-09 5G

Rubber Processing Point Source Category.
W76-04453 9-09 5G

Water Quality Standards.
W76-04454 9-09 5G

Environmental Protection Agency: A Progress Report December 1970--June 1972.
W76-04548 9-10 5G

Subsurface Emplacement of Fluids--Administrator's Decision Statement Number Five.
W76-04637 9-10 5G

Pulp, Paper and Paperboard Point Source Category---Effluent Guidelines and Standards.
W76-04638 9-10 5G

Effluent Limitations Guidelines for Standards of Performance and Pretreatment Standards for New Sources for the Dairy Products Processing Industry Point Source Category.
W76-04639 9-10 5G

Petroleum Refining Point Source Category -- Effluent Guidelines and Standards.
W76-04640 9-10 5G

Builders Paper and Roofing Felt Segment of the Builders Paper and Board Mills Point Source Category-Effluent Guidelines and Standards.
W76-04641 9-10 5G

Aquaculture Project--Requirements for Approval of Discharges.
W76-04642 9-10 5G

Effluent Guidelines and Standards-Pretreatment Standards for Certain Categories.
W76-04849 9-10 5G

Grain Mills Manufacturing Point Source Category (Effluent Limitations and Guidelines).
W76-04852 9-10 5G

Administration of the Clean Air Act and Federal Water Pollution Control Act.
W76-04853 9-10 5G

Navigable Waters of the State of Alabama (Water Quality).
W76-04855 9-10 5G

Petroleum Refining Point Source Category (Proposed Effluent Limitations and Guidelines).
W76-04856 9-10 5G

Ocean Dumping.
W76-04858 9-10 5G

Steam Electric Power Generating Point Source Category (Proposed Guidelines and Standards for Effluents).
W76-04859 9-10 5G

Thermal Discharges.
W76-04860 9-10 5G

West Virginia: Water Quality Standards (Withdrawal of Notice of Proposed Rulemaking).
W76-04861 9-10 5G

Navigable Waters (Discharge of Dredged or Fill Material).
W76-04862 9-10 5G

Water Quality Standards (Navigable Waters of the State of Alabama).
W76-04864 9-10 5G

Water Quality Standards (Navigable Waters of the Commonwealth of Kentucky).
W76-04865 9-10 5G

Sugar Processing Point Source Category (Effluent Limitations, Guidelines, and Standards).
W76-04867 9-10 5G

The Economics of Clean Water - 1973.
W76-05203 9-11 5G

Impact of the Safe Drinking Water Act,
W76-05449 9-11 5G

Thermal Processing and Land Disposal of Solid Waste.
W76-06082 9-12 5D

Designation and Determination of Removability of Hazardous Substances from Water.
W76-06084 9-12 5G

Timber Products Processing Point Source Category--Effluent Guidelines and Standards.
W76-06085 9-12 5G

Plastics and Synthetics Point Source Category (Proposed Effluent Limitations and Guidelines).
W76-06086 9-12 5G

Environmental Protection Agency--Poultry Processing Products, Proposed Performance and Pretreatment Standards.
W76-06096 9-12 5G

Water Quality Standards: Oregon (Withdrawal of Proposed Rule Making).
W76-06098 9-12 5G

Water Quality Standards--Colorado River System (Salinity Control Policy and Standards Procedure).
W76-06512 9-13 5G

Effluent Guidelines -- Steam Electric Power Generating Point Source Category.
W76-06513 9-13 5G

Inorganic Chemicals Manufacturing Point Source Category.
W76-06514 9-13 5G

Tire and Synthetic Segment of the Rubber Processing Point Source Category.
W76-06516 9-13 5G

Soap and Detergent Manufacturing Category (Pretreatment Standards for Incompatible Pollutants).
W76-06517 9-13 5G

Effluent Guidelines and Standards - Ferroalloys Manufacturing Point Source Category.
W76-06518 9-13 5G

Ferroalloy Manufacturing Point Source Category.
W76-06519 9-13 5G

Effluent Limitations and Guidelines - Printing Ink Formulating Point Source Category.
W76-06520 9-13 5G

Nonferrous Metals Manufacturing Point Source Category.
W76-06521 9-13 5G

Interim Primary Drinking Water Standards.
W76-06522 9-13 5G

The Environment and the Lawyer,
W76-06826 9-14 6E

Environmental Protection Agency, Electroplating Manufacturing Point Source Category (Standards of Performance for New Sources).
W76-06830 9-14 5G

Effluent Limitations and Guidelines -- Paint Formulating Point Source Category.
W76-06832 9-14 5G

Fertilizer Manufacturing Point Source Category (Effluent Guidelines and Limitations).
W76-06833 9-14 5G

Performance of Raw Waste Stabilization agoons in Michigan with Long Period Storage Before Discharge,
W76-07052 9-14 5D

Preparation of Water Quality Management Plans.
W76-07843 9-15 5G

Ore Mining and Dressing Point Sources Category, Interim Final Rules.
W76-07844 9-15 5G

Ore Mining and Dressing Point Source Category.
W76-07845 9-15 5G

National Pollutant Discharge Elimination System and State Program Elements Necessary for Participation Concentrated Animal Feeding Operations.
W76-07846 9-15 5G

Coal Mining Point Source Category: Application of Effluent Limitations Guidelines for Existing Sources to Pretreatment Standards for Incompatible Pollutants.
W76-07847 9-15 5G

Coal Mining Point Source Category, Interim Final Rule Making.
W76-07848 9-15 5G

Mineral Mining and Processing Point Source Category Interim Final Rulemaking.
W76-07849 9-15 5G

Grain Mills Point Source Category: Proposed Pretreatment Standards for New Sources.
W76-07850 9-15 5G

Ink Formulating Point Source Category Effluent Guidelines and Standards,
W76-07851 9-15 5G

National Pollutant Discharge Elimination System,
W76-07852 9-15 5G

ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C.

Nonferrous Metals Manufacturing Point Source Category, Effluent Limitations and Guidelines,
W76-07853 9-15 5G

Nonferrous Metals Manufacturing Point Source Category,
W76-07854 9-15 5G

Canned and Preserved Fruits and Vegetables Processing Industry Point Source Category, Interim Final Rule Making,
W76-07855 9-15 5G

Iron and Steel Manufacturing Point Source Category Proposed Effluent Guidelines and Standards.
W76-07856 9-15 5G

Canned and Preserved Fruits and Vegetables Processing Industry Point Source Category Proposed Effluent Guidelines and Standards.
W76-07857 9-15 5G

Environmental Levels of PCB'S,
W76-10641 9-20 5A

New Source NPDES Permits Preparation of Environmental Impact Statements,
W76-10757 9-20 6G

Marine Sanitation Device Standard,
W76-10758 9-20 5D

Soap and Detergent Manufacturing Category Pretreatment Standards for New Sources,
W76-10759 9-20 5G

Timber Products Processing Point Source Category, Proposed Pretreatment Standards for Existing Sources,
W76-10760 9-20 5G

Timber Products Processing Point Source Category,
W76-10761 9-20 5G

Environmental Protection Agency: Policies and Procedures for State Continuing Planning Process,
W76-10762 9-20 5G

Preparation of State Water Quality Management Plans.
W76-10763 9-20 5G

Fertilizer Manufacturing Point Source Category, Urea Subcategory,
W76-10764 9-20 5G

Environmental Protection Agency: Grants and Other Federal Assistance, State and Local Assistance.
W76-10765 9-20 5G

Fertilizer Manufacturing Point Source Category, Effluent Limitations and Guidelines for Existing Sources and Standards for New Sources for the Phosphate Subcategory,
W76-10768 9-20 5G

Organic Chemicals Manufacturing Point Source Category, Ethylene Oxide, Ethylene Glycol, Methyl Amines and Oxo Chemicals Processes,
W76-10769 9-20 5G

Water Programs Secondary Treatment Information,
W76-10770 9-20 5D

Domestic Wastewater Disinfection, Secondary Treatment,
W76-10771 9-20 5D

Oil Pollution Prevention,
W76-10772 9-20 5G

Ink Formulating Point Source Category, Pretreatment Standards for Existing Sources,
W76-10774 9-20 5G

A Survey of Empirical Benefit Studies,
W76-11157 9-21 6B

Project-by-Project Analysis VS. Comprehensive Planning,
W76-11163 9-21 5G

Water Quality Management Planning for Urban Runoff.
W76-11600 9-21 5D

The U. S. Environmental Protection Agency: Past and Future Challenges,
W76-11658 9-22 5D

Relating Environmental Modeling to Policy Issues and Decisions,
W76-11879 9-22 5G

Effluent Limitations Guidelines for Existing Sources and Standards of Performance and Pretreatment Standards for New Sources for the Paving and Roofing Materials (Tars and Asphalt) Point Source Category.
W76-11989 9-22 5G

Review of Projects Affecting Sole Source Aquifers, Edwards Underground Reservoir, Texas Area; Interim Project Review Guidelines.
W76-11991 9-22 5G

Inorganic Chemicals Manufacturing Point Source Category.
W76-11992 9-22 5G

National Pollutant Discharge Elimination System: Separate Storm Sewers.
W76-11993 9-22 5G

Offshore Segment of the Oil and Gas Extraction Point Source Category.
W76-11994 9-22 5G

ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. (ASSIGNEE).

Ligand Exchange Process for Removal of Ammonia,
W76-09056 9-17 5D

ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. DIV. OF WATER PLANNING.

Sludge Processing, Transportation and Disposal/Resource Recovery: A Planning Perspective,
W76-12683 9-24 5D

ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. DIV. OF WATER SUPPLY.

Virus Problems and Their Relation to Water Supplies,
W76-00392 9-01 5A

The Safe Drinking Water Act and EPA's Role in Training,
W76-01963 9-04 5G

A Guide to the Interstate Carrier Water Supply Certification Program.
W76-05040 9-11 5G

Fluoridation Engineering Manual,
W76-07031 9-14 5F

A Manual for the Evaluation of a State Drinking Water Supply Program,
W76-07032 9-14 5F

ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON D.C. EFFLUENT GUIDELINES DIV.

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Bauxite Refining Subcategary of the Aluminum segment of the Non-Ferrous Metals Manufacturing Point Source Category,
W76-01201 9-03 5G

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Tire and Synthetic Segment of the Rubber Processing Point Source Category,
W76-01202 9-03 5G

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Soap and Detergent Manufacturing Point Source Category,
W76-01203 9-03 5G

Development Document for Effluent Limitations Guidelines and Standards of Performance for New Sources. Beet Sugar Processing Subcategory of the Sugar Processing Point Source Category,
W76-01204 9-03 5G

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Major Inorganic Products Segment of the Inorganic Chemicals Manufacturing Point Source Category,
W76-01205 9-03 5D

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Red Meat Processing Segments of the Meat Products and Rendering Processing Point Source Category,
W76-01206 9-03 5D

Development Document for Effluent Limitations Guidelines and New Source Performance Standards - Feedlots Point Source Category,
W76-01208 9-03 5G

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Synthetic Resins Segment of the Plastics and Synthetic Materials Manufacturing Point Source Category,
W76-01209 9-03 5G

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Smelting and Slag Processing Segments of the Ferroalloy Manufacturing Point Source Category,.
W76-01210 9-03 5G

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Dairy Product Processing Point Source Category,
W76-01211 9-03 5G

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Unbleached Kraft and Semichemical Pulp Segment of the Pulp, Paper, and Paperboard Mills Point Source Category,
W76-01212 9-03 5G

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Basic Fertilizers Chemicals Segment of the Fertilizer Manufacturing Point Source Category,
W76-01213 9-03 5G

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Steel Making Segment of the Iron and Steel Manufacturing Point Source Category,
W76-01214 9-03 5G

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Insulation Fiberglass Manufacturing Segment of the Glass Manufacturing Point Source Category,
W76-01215 9-03 5G

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Apple, Citrus, and Potato Processing Segment of the Canned and Preserved Fruits and Vegetables Point Source Category,
W76-01216 9-03 5G

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Secondary Aluminum Smelting Subcategory of the Aluminum Segment of the Nonferrous Metals Manufacturing Point Source Category,
W76-01231 9-03 5G

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Cement Manufacturing Point Source Category,
W76-01235 9-03 5D

Development Document for Effluent Limitations Guidelines and Standards of Performance for the Catfish, Crab, Shrimp and Tuna Segments of the Canned and Preserved Seafood Processing Industry Point Source Category,
W76-01237 9-03 5G

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Petroleum Refining Point Source Category,
W76-01238 9-03 5G

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Leather Tanning and Finishing Point Source Category,
W76-01816 9-04 5D

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Grain Processing Segment of the Grain Mills Point Source Category,
W76-04550 9-10 5G

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Steam Electric Power Generating Point Source Category.
W76-04839 9-10 5G

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Animal Feed, Breakfast Cereal, and Wheat Starch Segments of the Grain Mills Point Source Category,
W76-10594 9-20 5G

Development Document for Effluent Limitations Guidelines and New Source Performance Standards for the Textile, Friction Materials and Sealing Devices Segment of the Asbestos Manufacturing Point Source Category,
W76-10595 9-20 5G

ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. IMPACT ANALYSIS AGENCY.

Feedlot Effluent Limitations Based upon Exemplary Operations,
W76-07163 9-14 5G

ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D. C. OFFICE OF AIR AND WATER PROGRAMS.

Agricultural Sediment Control for Water Quality Protection,
W76-10617 9-20 5G

Development Document for Effluent Limitations Guidelines and New Source Performance Standards: Feedlot Point Source Category,
W76-10829 9-20 5G

ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D. C. OFFICE OF ENVIRONMENTAL SCIENCES.

Forest-Floor Nutrient Dynamics in Southern Appalachian Hardwood and White Pine Plantation Ecosystems,
W76-10309 9-19 5B

The Effect of Nonremoval Clear-Cutting and Pine Reforestation of the Cation Composition of a Hardwood Forest Soil,
W76-10322 9-19 4C

ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF GENERAL COUNSEL.

Antitrust and Pollution Control: An EPA Perspective,
W76-01958 9-04 5G

ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF PLANNING AND EVALUATION.

Economic Analysis of Effluent Guidelines: Petroleum Refining Industry.
W76-02618 9-06 5G

Economic Analysis of Effluent Guidelines: Insulation Fiberglass Industry.
W76-09780 9-18 5G

Evaluation of the Report on Interceptor Sewers and Suburban Sprawl.
W76-12915 9-24 5D

ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF RESEARCH AND DEVELOPMENT.

Zero Discharge of Industrial Wastewaters,
W76-03834 9-08 5G

Ultimate Disposal of Wastewaters,
W76-03841 9-08 5E

ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF RESEARCH AND MONITORING.

The United States Environmental Protection Agency's Storm Water Management Model,
W76-12549 9-23 5G

ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF SOLID WASTE MANAGEMENT PROGRAMS.

Dumps: A Potential Threat to Ground Water Supplies,
W76-00487 9-01 5B

Anaerobic Digestion of Solid Waste and Sewage Sludge into Methane,
W76-09153 9-17 5D

ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF TOXIC SUBSTANCES.

Environmental Aspects of Chemical Use in Well Drilling Operations.
W76-08889 9-17 5G

Monitoring: The Trigger for Action,
W76-10640 9-20 5A

ENVIRONMENTAL PROTECTION AGENCY, WASHINGTON, D.C. OFFICE OF WATER PROGRAM OPERATIONS.

The Federal Construction Grant Process from a (Bilene) to Z (Anesville),
W76-00629 9-02 5G

Municipal Wastewater Treatment Works Construction Grants, References, Regulations, Guidance, Procedures.
W76-05075 9-11 5D

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EPA Guidance and Policy on Land Treatment,
W76-11638 9-22 5D

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W76-06342 9-13 5G

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Impact of the Safe Drinking Water Act,
W76-03423 9-07 5F

The Development and Application of the 1974 Drinking Water Standards,
W76-03424 9-07 5F

Problems of Individual Supplies,
W76-03434 9-07 5F

Emergency Supplies,
W76-03436 9-07 5F

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Acute Toxicity of Well-Drilling to Rainbow Trout,
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Operator Training and Certification in Canada,
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Mizushima Oil Soill,
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W76-01842 9-04 7B

Updating Coastal and Navigational Charts Using ERTS-1 Data,
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Advanced Processing and Information Extracting Techniques Applied to ERTS-1 MSS Data,
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Analysis of Cladophora Distribution in Lake Ontario using Remote Sensing,
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A Strategy for Aquatic Pollutants Fate and Transport Determination,
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A Proposed National Monitoring System for Organics in Water,
W76-10668 9-20 5A

Capabilities and Limitations in Identifying and Measuring Aquatic Pollutants,
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Techniques for Optimizing a Quadrupole GC/MS/Computer System,
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ENVIRONMENTAL RESEARCH LAB., CORVALLIS, OREG.
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W76-10898 9-20 5C

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Atmospheric Dispersion of Cooling-Tower Blowdown,
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W76-02181 9-05 5D

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W76-01672 9-04 5D

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Apparatus for Separating Low-Density Liquid from a Relatively More Dense Liquid Substantially Immiscible Therewith,
W76-06473 9-13 5G

ERIE CITY PUBLIC WORKS, PA.
Cooperation Helps Erie,
W76-08481 9-16 5D

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W76-12222 9-23 5G

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W76-00710 9-02 3C

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Measurement of Hydrocarbons in Water and Sediment,
W76-05144 9-11 5A

Methods for Polynuclear Aromatic
W76-05145 9-11 5A

ESTABLISSEMENTS KUHLMANN, PARIS (FRANCE). PRODUITS CHIMIQUES.
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W76-07511 9-15 5D

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W76-04270 9-09 5D

EUTEK PROCESS DEVELOPMENT AND ENGINEERING, SACRAMENTO, CALIF.
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W76-04786 9-10 5D

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W76-10232 9-19 5D

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Stop Drill String Connection Failure,
W76-04049 9-09 8G

Effects of Drilling Operations on the Marine Environment,
W76-08909 9-17 5G

Field Proven Techniques Improve Cementing Success,
W76-11909 9-22 8F

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Techniques of Deep Well Drilling,
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EXXON CO., NEW ORLEANS, LA.
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Offshore Petroleum Drilling and Production,
W76-09332 9-17 5G

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W76-11480 9-21 6G

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W76-09612 9-18 6A

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W76-10100 9-19 8E

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W76-05141 9-11 5B

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W76-05142 9-11 5B

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W76-09384 9-17 5B

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W76-01837 9-04 5A

Oil Ports on the Continental Shelf,
W76-10984 9-20 5G

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W76-12422 9-23 5G

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W76-10394 9-19 5B

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Oil Pollution Totalizer,
W76-04603 9-10 5A

Liquid Separating Equipment,
W76-04614 9-10 5G

Method for Clarifying Oily Water Mixtures,
W76-09057 9-17 5G

Oil Collection Agents and Their Use in Containing Oil Slicks,
W76-11845 9-22 5G

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The Use of Fluid Catalytic Cracking Catalyst in Activated Sludge Wastewater Treatment,
W76-12646 9-23 5D

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Toxic Effects of Oil Discharged from Ships,
W76-12380 9-23 5C

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W76-03577 9-08 5C

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Device for Separating Liquids of Specifically Lower Density than Water, and Particularly Oil, from Water,
W76-11836 9-22 5G

FACET ENTERPRISES INDUSTRIES, INC., WARWICK, R.I.
Activated Carbon Treatment of Phenolic Paint Stripping Wastewater,
W76-12696 9-24 5D

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Pollution Control System for Water Supply,
W76-05530 9-12 5F

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W76-08499 9-16 5A

FARMERS HOME ADMINISTRATION, WASHINGTON, D.C.
Financial Considerations for Rural Water Systems,
W76-03433 9-07 5F

FEDERAL DISASTER ASSISTANCE ADMINISTRATION WASHINGTON, D. C.
Los Angeles Dam and Reservoir Project San Fernando Valley, Los Angeles County, California, Vols. I and II.
W76-07357 9-14 8A

Directory of Disaster-Related Technology,
W76-10502 9-20 10C

FEDERAL ENERGY ADMINISTRATION, WASHINGTON, D.C.
PCB's in Suburban Watershed, Reston, Va.,
W76-00319 9-01 5B

Water for Project Independence,
W76-04633 9-10 6D

FEDERAL HIGHWAY ADMINISTRATION, WASHINGTON, D. C.
Design Approval and Environmental Impact.
W76-06834 9-14 6G

Flood Peak Estimates From Small Rural Watersheds,
W76-08077 9-15 2A

FEDERAL INSURANCE ADMINISTRATION, WASHINGTON, D. C.
Identification of Special Hazard Areas List of Communities with Special Hazard Areas,
W76-10773 9-20 6F

FEDERAL MARITIME COMMISSION, WASHINGTON, D. C.
Superports: The Need Is Coming,
W76-12017 9-22 5G

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W76-11764 9-22 8C

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W76-07821 9-15 5G

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W76-01710 9-04 6

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W76-01712 9-04 6

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W76-07412 9-14 2

FERGUSON (H.K.) CO., CLEVELAND, OHIO.
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W76-00158 9-01 3

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W76-04930 9-10 2

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W76-07498 9-15 5

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W76-04422 9-09 5

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W76-12556 9-23 4

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W76-12555 9-23 4

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W76-03550 9-08 5

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Transfer of Lindane from Bark of Insecticide Sprayed Pine Pulpwood into Effluent from Barking Drum (Lindaanin huuhtoutumisest

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W76-05734 9-12 5B

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The Use of Waste Fibers as Absorption Material in Grass Silage,
W76-10863 9-20 5E

RESTONE TIRE AND RUBBER CO., AKRON, HIO.
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W76-01665 9-04 5D

Secondary Treatment of Wastewater from Synthetic Rubber Production,
W76-07509 9-15 5D

SCHER AND BEATTY, FORT COLLINS, OLO.
Equitable Apportionment of Interstate Ground Waters,
W76-10728 9-20 4B

SCHER AND PORTER CO., WARMINSTER, A. (ASSIGNEE).
Dissolved Oxygen Probe,
W76-12391 9-23 5D

Technique for Continulusly Analyzing the Concentration of Ozone Dissolved in Water,
W76-12405 9-23 5F

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W76-07248 9-14 5C

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W76-12742 9-24 5C

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W76-10052 9-19 5C

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W76-07250 9-14 8I

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Check that pH,
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W76-07969 9-15 5C

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W76-07495 9-15 8I

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W76-11178 9-21 5C

Observations on the Cestode Eubothrium Salvelini in Juvenile Sockeye Salmon (Oncorhynchus Nerka) at Babine Lake, British Columbia,
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W76-01166 9-03 2H

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W76-03045 9-07 5C

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W76-03046 9-07 5C

Accumulation of Thallium in Clams and Mussels,
W76-04921 9-10 5C

Toxicity and Environmental Properties of Chemicals used in Well-Drilling Operations,
W76-08906 9-17 5C

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Field Evaluation of Benzopyrene Hydroxylase Induction as a Monitor for Marine Petroleum Pollution,
W76-09116 9-17 5A

FISHERIES AND MARINE SERVICE, STE. ANNE DE BELLEVUE (QUEBEC). ARCTIC BIOLOGICAL STATION.
Responses of Arctic Marine Crustaceans to Crude Oil and Oil-Tainted Food,
W76-09123 9-17 5C

FISHERIES AND MARINE SERVICE, VANCOUVER (BRITISH COLUMBIA). VANCOUVER LAB.
Spawning of Lake Whitefish, Coregonus Clupeaformis, and Round Whitefish, Prosopium Cylindraceum, in Aishihik Lake and East Aishihik River, Yukon Territory,
W76-12754 9-24 2H

FISHERIES AND MARINE SERVICE, WEST VANCOUVER (BRITISH COLUMBIA). PACIFIC ENVIRONMENT INST.
Application of the Stainton Syringe Method to the Analysis of Mercury in Natural Waters,
W76-08025 9-15 5A

FISHERIES AND MARINE SERVICE, WEST VANCOUVER (BRITTISH COLUMBIA). PACIFIC ENVIRONMENTAL INST.
Application of the Stainton Syringe Method to the Analysis of Mercury in Natural Waters,
W76-03313 9-07 5A

FISHERIES AND MARINE SERVICE, WINNIPEG (MANITOBA).
Effect of Phosphorus Deficiency on Two Algae Growing in Chemostats,
W76-05465 9-11 5C

FISHERIES AND MARINE SERVICE, WINNIPEG (MANITOBA). FRESHWATER INST.
Electrochemical Detection of NH4 plus NH3 Systems in Water,
W76-01652 9-04 5A

Summerkill Risk in Prairie Ponds and Possibilities of its Prediction,
W76-01653 9-04 5C

Collapses of Algal Blooms in Prairie Pothole Lakes: Their Mechanism and Ecological Impact,
W76-01655 9-04 5C

Nitrogen, Phosphorus and Carbon Cycles in a Disturbed Eutrophic Ecosystem,
W76-01656 9-04 5C

Physical and Chemical Characteristics of Great Bear Lake, Northwest Territories,
W76-04095 9-09 2H

Seasonal Mortality of Rainbow Trout (Salmo Gairdneri) Planted in Smalll Eutrophic Lakes of Central Canada,
W76-11179 9-21 5C

Factors Controlling Rates of Methane Oxidation and the Distribution of the Methane Oxidizers in a Small Stratified Lake,
W76-12750 9-24 5B

Physiological Changes During the Course of Blooms of Aphanizomenon Flos-Aquae,
W76-13114 9-24 5C

FISHERIES AND MARINE SERVICES, ST. JOHN'S (NEWFOUNDLAND). BIOLOGICAL STATION.
Food, Feeding, and Condition of Lobsters, Homarus Americanus, Throughout the Seasonal Cycle in Bonavista Bay, Newfoundland,
W76-04017 9-09 2I

FISHERIES RESEARCH BOARD OF CANADA, ST. JOHN'S (NEWFOUNDLAND). BIOLOGICAL STATION.
Induction of Aryl Hydrocarbon (Benzo (Alpha) Pyrene) Hydroxylase in Fish by Petroleum,
W76-00868 9-02 5C

FISHERIES RESEARCH BOARD OF CANADA, WINNIPEG (MANITABA). FRESHWATER INST.
The Effect and Fate of Crude Oil Spilt on Two Arctic Lakes,
W76-00863 9-02 5C

FISHERIES RESEARCH BOARD OF CANADA, WINNIPEG (MANITOBA). FRESHWATER INST.
The Biogeochemistry of Phosphorus in an Experimental Lake Environment: Evidence for the Formation of Humic-Metal-Phosphate Complexes,
W76-06203 9-13 5C

The Phytoplankton and Primary Productivity of Southern Indian Lake (Manitoba), A High Latitude, Riverine Lake,
W76-06204 9-13 5C

The Importance of Diurnal Variation of Photosynthesis vs. Light Curves to Estimates of Integral Primary Production,
W76-06210 9-13 5C

FISHERIES TECHNOLOGY UNIT, HAIFA (ISRAEL).
Gnawing at Fishing Netting: A Problem in Cage-Raising of Herbivorous Fish,
W76-07970 9-15 8I

FISHERY BOARD OF SWEDEN, GOTEBORG. HYDROGRAPHIC DEPT.
Sea Level Computations of the Baltic with a 20-Canal Model,
W76-12205 9-23 2L

FISHERY RESEARCH CENTRER, FORT COLLINS, COLO.
Acute and Chronic Toxicity of Lead to Rainbow Trout Salmo Gairdneri, in Hard and Soft Water,
W76-08781 9-17 5C

FLINDERS INST. OF ATMOSPHERIC AND MARINE SCIENCES, (AUSTRALIA).
A Theoretical Model of the Flow in the Mouth of Spencer Gulf, South Australia,
W76-03376 9-07 2L

FLORENCE UNIV. (ITALY). DEPT. OF PHYSICAL CHEMISTRY.
A Simple Physicochemical Method of Detecting Traces of Surfactants in Water,
W76-09927 9-18 5A

FLORIDA AGRICULTURAL AND MECHANICAL UNIV., TALLAHASSEE.
Studies on the Animal Communities in Two North Florida Salt Marshes. Part I. Fish Communities,
W76-08161 9-16 2L

FLORIDA ATLANTIC UNIV., BOCA RATON.
Biological Control of Aquatic Vegetation,
W76-04571 9-10 3B

FLORIDA ATLANTIC UNIV., BOCA RATON. DEPT. OF BIOLOGICAL SCIENCES.
Exotic Fishes in Fresh and Brackish Waters of Florida,
W76-07421 9-14 2I

The Intracoastal Waterway: An Ecological Perspective,
W76-11986 9-22 5G

FLORIDA ATLANTIC UNIV., BOCA RATON. DEPT. OF OCEAN ENGINEERING.
Resonances in Harbors with Variable Depths,
W76-10416 9-19 8B

FLORIDA ATLANTIC UNIV., BOCA RATON. DEPT. OF POLITICAL SCIENCE.
Water Problems in the Context of County Government Decision-Making,
W76-04511 9-10 6B

FLORIDA DEPT. OF NATURAL RESOURCES, ST. PETERSBURG, MARINE RESEARCH LAB.
The 1971 Red Tide and Its Impact on Certain Reef Communities in the Mid-Eastern Gulf of Mexico,
W76-07615 9-15 5C

Implications of Dinoflagellate Life Cycles on Initiation of Gymnodinium Breve Red Tides,
W76-07619 9-15 5C

Further Thermal Addition Studies at Crystal River, Florida with an Annotated Checklist of Marine Fishes Collected 1969-1971,
W76-12163 9-23 5C

FLORIDA DEPT. OF NATURAL RESOURCES, TALLAHASSEE. BUREAU OF COASTAL ZONE PLANNING.
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W76-01894 9-04 2L

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W76-01895 9-04 2L

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W76-01896 9-04 2L

Sediment Analysis of the Lagoonal Complex Surrounding KSC (Kennedy Space Center),
W76-01897 9-04 2L

Water Quality Parameters of the Lagoonal Complex Surrounding KSC (Kennedy Space Center),
W76-01898 9-04 2L

Effects of Gamma Radiation from Co60 on Dilute Aqueous Solutions of Linear Alkyl Sulfonate Surfactants and other Organic Pollutants,
W76-09531 9-18 5D

FLORIDA INST. OF TECH., MELBOURNE. UNIV. CENTER FOR POLLUTION RESEARCH.
Synergistic Effects of Irradiation of Waste-Water.
W76-09524 9-18 5D

FLORIDA OFFICE OF THE ATTORNEY GENERAL, TALLAHASSEE. DEPT. OF LEGAL AFFAIRS.
Special Districts--Creation of Water Management District Pursuant to General Law in a Charter County.
W76-11988 9-22 6E

FLORIDA POWER AND LIGHT CO., MIAMI.
Test Program on Environmental Effects of Saltwater Mechanical Cooling Devices,
W76-04826 9-10 5A

FLORIDA PUBLIC WORKS ADMINISTRATION, ST. PETERSBURG.
Sod Production: An Experiment in Sludge Disposal,
W76-12633 9-23 5E

FLORIDA STATE DEPT. OF ADMINISTRATION, TALLAHASSEE. DIV. OF STATE PLANNING.
The OCS Forgotten Land: Territorial Sea, Nearshore, and Estuary,
W76-09330 9-17 5G

FLORIDA STATE DEPT. OF ENVIRONMENTAL REGULATION, TALLAHASSEE.
Air and Water Quality Standards in Florida,
W76-02096 9-05 5G

Coastal Boundary Litigation with the State: A Frame of Reference,
W76-07804 9-15 6E

FLORIDA STATE GAME AND FRESH WATER FISH COMMISSION, EUSTIS. EUSTIS FISHERIES RESEARCH LAB.
Comparative Effects of Diquat Plus Copper Sulfate on Aquatic Organisms,
W76-09821 9-18 5C

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W76-04402 9-09 2I

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Impact of Kraft Pulp-Mill Effluents on Estuarine and Coastal Fishes in Apalachee Bay, Florida, USA,
W76-03018 9-07 5C

Effects of Kraft Mill Effluents on Benthic Macrophyte Assemblages in a Shallow-Bay System (Apalachee Bay, North Florida, U.S.A.),
W76-10077 9-19 5C

LORIDA STATE UNIV., TALLAHASSEE. EPT. OF METEOROLOGY.
Mesoscale Variability of Sea Surface Temperatures,
W76-03739 9-08 2L

LORIDA STATE UNIV., TALLAHASSEE. EPT. OF OCEANOGRAPHY.
Observations on the Association Between Mercury and Organic Matter Dissolved in Natural Waters,
W76-01757 9-04 5A

On The Possibilities of Coastal, Mid-Shelf, and Shelf Break Upwelling,
W76-03731 9-08 2L

A Three-Dimensional Simulation of Coastal Upwelling Off Oregon,
W76-07775 9-15 2L

The Effect of urban Land Use on Nutrient and Suspended-Solids Export from North Florida Watersheds,
W76-10331 9-19 4C

Mercury Enrichment in Estuarine Plant Detritus,
W76-11724 9-22 5C

LORIDA STATE UNIV., TALLAHASSEE. EPT. OF URBAN AND REGIONAL LANNING.
Florida Coastal Policy Study: The Impact of Offshore Oil Development,
W76-11468 9-21 6G

Introduction,
W76-11469 9-21 6G

Deepwater Ports: Policy Issues in Florida,
W76-11473 9-21 6G

LORIDA STATE UNIV., TALLAHASSEE. IARINE LAB.
Differential Sensitivity to PCB by Phytoplankton,
W76-11816 9-22 5C

LORIDA UNIV., FORT PIERCE. INST. OF OOD AND AGRICULTURAL SCIENCE.
Nitrate, Phosphate, and Potassium Movement into Drainage Lines under Three Soil Management Systems,
W76-08680 9-16 5B

LORIDA UNIV., GAINESVILLE. COASTAL ND OCEANOGRAPHIC ENGINEERING LAB.
Hydraulic Constants of Tidal Entrances, II: Stability of Long Island Inlets,
W76-01836 9-04 2L

An Investigation of the Depositional Properties of Flocculated fine Sediments,
W76-04684 9-10 2J

Modeling of Inlet-Bay Systems in Relation to Sand Trapping,
W76-10462 9-19 2L

LORIDA UNIV., GAINESVILLE, DEPT. OF GRICULTURAL ECONOMICS.
Cost Allocation for a Regional Pollution Treatment System,
W76-05442 9-11 5G

LORIDA UNIV., GAINESVILLE. DEPT. OF GRICULTURAL ENGINEERING.
Sealing of Anaerobic Dairy Waste Lagoons in Sandy, High Water Table Soils,
W76-00445 9-01 5B

Land Disposal of Effluent from a Sanitary Landfill,
W76-00893 9-02 5E

Feed and Fiber From Effluent-Grown Water Hyacinth,
W76-03551 9-08 5D

Effluent Irrigation of Pearl Millet,
W76-07205 9-14 5D

Efficiency of Irrigation Methods for Strawberries,
W76-09897 9-18 3F

Peach Irrigation in Florida,
W76-10749 9-20 3F

Phosphorus Transport in a Packed Bed Reactor,
W76-11632 9-22 5D

Effluent Irrigation of Rye and Ryegrass,
W76-12644 9-23 5D

FLORIDA UNIV., GAINESVILLE. DEPT. OF ANIMAL SCIENCE.
Nutritional and Physiological Effects of Nitrates, Nitrites, and Nitrosamines,
W76-06334 9-13 5C

FLORIDA UNIV., GAINESVILLE. DEPT. OF BOTANY.
The Gradient of Salinity, Its Seasonal Movement, and Ecological Implications for the Lake Izabal-Rio Dulce Ecosystem, Guatemala,
W76-07975 9-15 5C

Aspects of Mineral-Nutrient Cycling in a Southern Mixed-Hardwood Forest in North Central Florida,
W76-10318 9-19 5B

FLORIDA UNIV., GAINESVILLE. DEPT. OF CIVIL AND COASTAL ENGINEERING.
Analysis of Flow Through Vegetation,
W76-00015 9-01 4A

FLORIDA UNIV., GAINESVILLE. DEPT. OF CIVIL ENGINEERING.
Physical Modeling of Scour Initiation and Sediment Transport in Distorted Tidal Models,
W76-10423 9-19 2L

Movable-Bed Model Investigation of Taichung Harbor, Taiwan, Rep. of China,
W76-10427 9-19 2L

Onset of Thermohaline Convection in a Cavernous Aquifer,
W76-12835 9-24 2F

FLORIDA UNIV., GAINESVILLE. DEPT. OF ENVIRONMENTAL ENGINEERING SCIENCES.
Urban Stormwater Management Modeling and Decision-Making,
W76-00695 9-02 5D

Energy Quality Interactions of Sunlight, Water, Fossil Fuel, and Land,
W76-00754 9-02 3E

Total Metabolism of Thermally Affected Coastal Systems on the West Coast of Florida,
W76-02021 9-05 5C

Studies of Florida Gulf Coast Salt Marshes Receiving Thermal Discharges,
W76-02024 9-05 5C

Energy Cost-Benefit Models for Evaluating Thermal Plumes,
W76-03496 9-07 5C

Boron and Arsenic Studies in Florida Waters,
W76-10265 9-19 5B

Systems Models for Phosphorus Management in Florida,
W76-10277 9-19 5C

Urban Stormwater Management Modeling and Decision-Making,
W76-11599 9-21 5D

Ecosystem Modeling of Waterhyacinth Management in Lake Alice, Florida,
W76-11884 9-22 5G

Continuous Monitoring, Automated Analysis, and Sampling Procedures, (Literature Review),
W76-12902 9-24 5A

FLORIDA UNIV., GAINESVILLE. DEPT. OF FOOD AND RESOURCE ECONOMICS.
Enabling Legislation: Possibilities for the Commercial Fishing Industry,
W76-10593 9-20 6E

Shrimp Supplies in the Southeast and their Effect on Processing Firm Size,
W76-13103 9-24 6C

FLORIDA UNIV., GAINESVILLE. DEPT. OF FRUIT CROPS.
Disposition of Water from Fruit Crops and Approaches to Increase Water use Efficiency,
W76-06807 9-14 2D

FLORIDA UNIV., GAINESVILLE. DEPT. OF GEOLOGY.
Petrographic and Geohydrologic Model of Aquifer Limestones in Florida,
W76-11493 9-21 2F

FLORIDA UNIV., GAINESVILLE. DEPT. OF PLANT PATHOLOGY.
Biological Control of Water Weeds with Plant Pathogens,
W76-11904 9-22 4A

FLORIDA UNIV., GAINESVILLE. DEPT. OF SOIL SCIENCE.
Hydraulic Conductivity Calculations for Unsaturated Steady-State and Transient-State Flow in Sand,
W76-02932 9-06 2G

Water Flow Through a Multilayer Stratified Hillside,
W76-05134 9-11 2F

Analytical Solution of the Equation for Transport of Reactive Solutes Through Soils,
W76-12450 9-23 2G

FLORIDA UNIV., GAINESVILLE. DEPT. OF ZOOLOGY.
The Role of the Aquatic Exchange of Carbon Dioxide in the Ecology of the Water Hyacinth (Eichhornia Crassipes),
W76-11921 9-22 2I

FLORIDA UNIV., GAINESVILLE. INST. OF FOOD AND AGRICULTURAL SCIENCES.
Base-Line Data on Everglades Soil-Plant Systems: Elemental Composition, Biomass, and Soil Depth,
W76-10314 9-19 5C

Agricultural Practices to Reduce Non-Point Pollution in the Okeechobee-Kissimmee Basin,
W76-12041 9-22 6E

FLORIDA UNIV., GAINSVILLE. DEPT. OF ZOOLOGY.
Effects of Ingested Mirex and DDT on Juvenile Callinectes Sapidus Rathbun,
W76-00333 9-01 5C

FLUID DYNAMICS PROPRIETORY LTD., CAPE TOWN (SOUTH AFRICA).
Method and Apparatus for Controlling Water Flow From an Impounded Body of Water,
W76-02595 9-06 4A

FLUOR CORP. LTD., LOS ANGELES, CALIF.
The Fluor Corporation Ltd. Conceptual Design of a 50 MGD Desalination Plant.
W76-00159 9-01 3A

FLUOR ENGINEERS AND CONSTRUCTORS, INC., ANAHEIM, CALIF.
Federal Environmental Laws and Regulations,
W76-03806 9-08 5G

FLUOR ENGINEERS AND CONSTRUCTORS, INC., HOUSTON, TEX. PROCESS DEPT.
Industrial Wastewater Pumps,
W76-01661 9-04 8C

FLUOR ENGINEERS AND CONSTRUCTORS, INC., LOS ANGELES, CALIF.
Refinery Design (Circa 1984),
W76-05104 9-11 5D

Design and Specification Bid Package, 10,000 GPD Eutectic Freeze Pilot Plant.
W76-05178 9-11 3A

Engineering and Economic Study of Reverse Osmosis Brackish Water Desalting Plants, Design of 1-5 MGD Plants, Plants for High Product Recovery,
W76-08118 9-16 3A

Engineering and Economic Study of Reverse Osmosis Brackish Water Desalting Plants, Design of 3-25 MGD Low Pressure Plants,
W76-08119 9-16 3A

Engineering and Economic Study of Reverse Osmosis Sea Water Desalting Plants, Design of 1-10 MGD Seawater Plants,
W76-08284 9-16 3A

FLUOR ENGINEERS AND CONSTRUCTORS, INC., LOS ANGELES, CALIF. ENVIRONMENTAL ENGINEERING DEPT.
How to Design Activated Sludge Units,
W76-00254 9-01 5D

FMC CORP., INDIANAPOLIS, IND. PUMP DIV.
Factory and Field Testing of Pumps,
W76-00281 9-01 8C

FMC CORP., ITASCA, ILL.
Pure Oxygen Treatment of Wastewater,
W76-00354 9-01 5D

FMC CORP., ITASCA, ILL. ENVIRONMENTAL EQUIPMENT DIV.
Replacement of Activated Sludge Secondary Clarifiers by Dynamic Straining,
W76-02662 9-06 5D

Equipment Applications in Wastewater Treatment Clarifiers,
W76-11206 9-21 5D

FMC CORP., PRINCETON, N.J.
Bulking Control Made Easy - With Hydrogen Peroxide,
W76-12664 9-23 5D

FMC CORP., PRINCETON, N.J. ENVIRONMENTAL RESEARCH LABS.
Effects of Water Hardness, Phosphorus Concentration and Sample Pretreatment on the Algal Assay Procedure--Bottle Test,
W76-06708 9-13 5C

FMC CORP., SAN JOSE, CALIF.
Plant for Wastewater Treatment,
W76-02215 9-05 5D

Floating Structural Plastic Truss System Protects Waste Lagoon Lining,
W76-10007 9-19 5G

FMC CORPORATION, PHILADELPHIA, PA. (ASSIGNEE).
Biological Treatment of Plant Waste Streams to Remove Cyanuric Acid,
W76-05027 9-11 5D

FOOD AND AGRICULTURAL ORGANIZATION OF THE UNITED NATIONS, ROME (ITALY).
England and Wales, (Legislation on Underground Waters).
W76-11121 9-21 6E

Israel, (Legislation on Underground Waters).
W76-11123 9-21 6E

Italy, (Legislation on Underground Waters).
W76-11124 9-21 6E

Spain, (Legislation on Underground Waters).
W76-11125 9-21 6E

FOOD AND AGRICULTURAL ORGANIZATION OF THE UNITED STATES, ROME (ITALY).
France, (Legislation on Underground Waters).
W76-11122 9-21 6E

Turkey, (Legislation on Underground Waters).
W76-11126 9-21 6E

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Some Factors Influencing Groundwater Development and Use for Agriculture,
W76-00813 9-02 4B

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS, CAIRO (EGYPT). NEAR EAST REGIONAL OFFICE.
Surface Irrigation Methods and Practices,
W76-01885 9-04 3F

Near East Applied Research Programme for Land and Water Development,
W76-01891 9-04 3F

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS, ROME (ITALY).
Groundwater Seminar, Granada.
W76-00807 9-02 4B

Irrigation Development Costs at the Farm Level.
W76-01821 9-04 6B

The Role of Effective Irrigation Water Management at the Farmer's Field,
W76-01879 9-04 3F

Irrigation Organizations,
W76-01889 9-04 3F

Training and Extension for Effective use of Irrigation Water,
W76-01890 9-04 3F

Belgium (Legislation on Underground Waters).
W76-11120 9-21 6E

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS, ROME (ITALY); AND INTERNATIONAL ATOMIC ENERGY AGENCY, VIENNA (AUSTRIA). DIV. OF ATOMIC ENERGY IN FOOD AND AGRICULTURE.
Water Balance Studies,
W76-01882 9-04 3F

Radiation Equipment and the Principles Involved in its Use,
W76-01883 9-04 2G

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS, ROME (ITALY). LAND AND WATER DEVELOPMENT DIV.
Watef Use, Seminar Damascus.
W76-01878 9-04 3F

FORD-WINDSOR COMPLEX (ONTARIO).
Wastewater Treatment at Ford's Windsor Complex,
W76-02298 9-05 5D

FORDHAM UNIV. BRONX N. Y. SCHOOL OF LAW.
Environmental Implications of River Basin Development Including Water Quality Management: General Report,
W76-07134 9-14 5G

Legal and Administrative Control of the Impact of River Basin Development on the Environment,
W76-07135 9-14 4A

FOREST AND RANGE EXPERIMENT STATION, RANGIORA (NEW ZEALAND).
Hutton's Shearwaters Initiating Local Soil Erosion in the Seaward Kaikoura Range,
W76-11518 9-21 2J

FOREST AND RANGE EXPERIMENT STATION, RANGIORA (NEW ZEALAND). DIV. OF PROTECTION FORESTRY.
The Effect of Timber Removal on the Stability of Forest Soils,
W76-03361 9-07 4C

FOREST SERVICE, BERKLEY, CALIF. PACIFIC SOUTHWEST FOREST AND RANGE EXPERIMENT STATION.
Forest Soil,
W76-02283 9-05 2G

Fire in Vegetation Management: Its Effects on Soil,
W76-02284 9-05 4C

Factor Analysis for Interpretation of Basin Physiography,
W76-02285 9-05 2A

The Hydrology of Chaparral Watersheds,
W76-02286 9-05 4D

Mass-Wasting Processes in Watershed Management,
W76-02287 9-05 4C

Relation of Reservoir Sedimentation to Catchment Attributes, Landslide Potential, Geologic Faults, and Predicted Density,
W76-02288 9-05 2J

Sedimentation and Turbidity Hazards in Wildlands,
W76-02289 9-05 2J

Relative Contribution of Sediment from Source Areas and Transport Processes,
W76-02290 9-05 2J

REST SERVICE (USDA), ALBUQUERQUE, MEX.
Canyon Creek Management Analysis,
W76-02242 9-05 4C

REST SERVICE (USDA), ALBUQUERQUE, MEX. ROCKY MOUNTAIN FOREST AND NGE EXPERIMENT STATION.
Soil Moisture Flux and Evapotranspiration Determined from Soil Hydraulic Properties in a Chaparral Stand,
W76-07083 9-14 2G

REST SERVICE (USDA), ATHENS, GA. RESTRY SCIENCES LAB.
First-Year Water Yield Increase After Forest Cutting: An Alternative Model,
W76-08362 9-16 4C

REST SERVICE (USDA), BEREA, KY. RTHEASTERN FOREST EXPERIMENT ATION.
A Photographic Technique for Monitoring Erosion on Strip Mined Lands,
W76-02278 9-05 5A

Changes in Water Chemistry Resulting from Surface-Mining of Coal on Four West Virginia Watersheds,
W76-09470 9-18 4C

REST SERVICE (USDA), BEREA, RTHEASTERN FOREST EXPERIMENT ATION.
Requirements and Use of Fertilizer, Lime, and Mulch for Vegetating Acid Mine Spoils,
W76-09469 9-18 4D

REST SERVICE (USDA),, BERKELEY, LIF. PACIFIC SOUTHWEST FOREST AND NGE EXPERIMENT STATION.
Chaparral Soils,
W76-02282 9-05 2G

Reservoir Sedimentation Associated with Catchment Attributes, Landslide Potential, Geologic Faults, and Soil Characteristics,
W76-05617 9-12 4D

The Hydrologic Potential of Unit Areas: A Basis for Managing Water Resources,
W76-05620 9-12 4D

Conifer Damage and Death Associated with the Use of Highway Deicing Salt in the Lake Tahoe Basin of California and Nevada,
W76-07796 9-15 5C

Major Floods, Poor Land Use Delay Return of Sedimentation to Normal Rates,
W76-12157 9-23 4D

Central Sierra Profiling Snow Gage: A Guide to Fabrication and Operation,
W76-12158 9-23 2C

Development of a Radioactive Isotope Profiling Snow Gage,
W76-12159 9-23 2C

Seasonal Snow Surface Energy Balance in a Forest Opening,
W76-12160 9-23 2C

Measurement of Snowpack Wetness,
W76-12162 9-23 2C

Water Yield Improvement Research of the Pacific Southwest Forest and Range Experiment Station and its Usefulness to Wildland Resource Management,
W76-12170 9-23 4C

Forest Soils and the Associated Soil-Plant Water Regime,
W76-12239 9-23 2G

Shadow Length Tables for Environmental Planning,
W76-12240 9-23 4A

Controlling Solar Light and Heat in a Forest by Managing Shadow Sources,
W76-12241 9-23 4A

Shadow Length Tables for Latitude 42 Degrees North,
W76-12242 9-23 4A

Shadow Length Tables for Latitude 50 Degrees North,
W76-12243 9-23 4A

Shadow Length Tables for Latitude 44 Degrees North,
W76-12244 9-23 4A

Shadow Length Tables for Latitude 46 Degrees North,
W76-12245 9-23 4A

Shadow Length Tables for Latitude 48 Degrees North,
W76-12246 9-23 4A

Shadow Length Tables for Latitude 38 Degrees North,
W76-12247 9-23 4A

Shadow Length Tables for Latitude 40 Degrees North,
W76-12248 9-23 4A

Shadow Length Tables for Latitude 36 Degrees North,
W76-12249 9-23 4A

FOREST SERVICE, (USDA), BERKELEY, CALIF. WATERSHED SYSTEMS DEVELOPMENT AND APPLICATION UNIT.
Establishing a Process Framework for Land Use Planning,
W76-02241 9-05 6A

FOREST SERVICE (USDA), BERKELY, CALIF. PACIFIC SOUTHWEST FOREST AND RANGE EXPERIMENT STATION.
Major Floods, Poor Land Use Delay Return of Sedimentation to Normal Rates,
W76-00989 9-02 4D

FOREST SERVICE (USDA) CADILLAC, MICH. NORTH CENTRAL FOREST EXPERIMENT STATION.
Validity of Soil-Water Samples Collected With Porous Ceramic Cups,
W76-00024 9-01 5A

FOREST SERVICE (USDA), CHARLESTON, S.C. SOUTHEASTERN FOREST EXPERIMENT STATION.
Some Effects of Soil Type and Water Regime on Growth of Tupelo Seedlings,
W76-00999 9-02 2I

FOREST SERVICE (USDA), CORVALLIS, OREG. PACIFIC NORTHWEST FOREST AND RANGE EXPERIMENT STATION.
Effects of Forest Fertilization on Two Southeast Alaska Streams,
W76-05612 9-12 5C

Comparative Effectiveness of the Standard Surber Sampler and a Hydraulic Modification for Estimating Bottom Fauna Populations,
W76-05613 9-12 7B

Estimating Dry Weight of Live, Unanesthetized Fish by Photography,
W76-05615 9-12 5A

The Impact of Timber Harvest, Fertilization, and Herbicide Treatment on Streamwater Quality in Western Oregon and Washington,
W76-05618 9-12 5B

Nutrient Cycling in 37- and 450-Year-Old Douglas-Fir Ecosystems,
W76-05619 9-12 5B

Guidelines for Characterizing Naturally Unstable or Potentially Unstable Slopes on Western National Forests,
W76-05621 9-12 4D

Soil Microbes,
W76-05935 9-12 2G

Soil Processes and Introduced Chemicals,
W76-05936 9-12 4C

Soil Stability and Water Yield and Quality,
W76-05937 9-12 4D

Effects of Forest Fertilization with Urea on Stream Water Quality--Quilcene Ranger District, Washington,
W76-05938 9-12 5B

Demand for Dissolved Oxygen Exerted by Finely Divided Logging Debris in Streams,
W76-05939 9-12 4C

Effect of Cacodylic Acid and MSMA on Microbes in Forest Floor and Soil,
W76-05940 9-12 5C

Geology and Geomorphology of the H. J. Andrews Experimental Forest, Western Cascades, Oregon,
W76-05941 9-12 4D

Timber Production and Water Quality -- Progress in Planning for the Bull Run, Portland, Oregon's Municipal Watershed,
W76-05942 9-12 5B

Impact of Forest Fertilization on Water Quality in the Douglas-Fir Region -- A Summary of Monitoring Studies,
W76-05943 9-12 5B

Slope Stability Problems Associated with Timber Harvesting in Mountainous Regions of the Western United States,
W76-05944 9-12 4C

Pesticide Residue Dynamics in a Forest Ecosystem: A Compartment Model,
W76-05946 9-12 5B

Interpreting Stability Problems for the Land Manager,
W76-05947 9-12 4D

Road Standards on Steep Terrain in the Pacific Northwest U.S.A. with Suggestions for Implementation,
W76-05948 9-12 4C

Dicamba Residues in Streams After Forest Spraying,
W76-05949 9-12 5B

The Forest Ecosystem of Southeast Alaska 5. Soil Mass Movement,
W76-05950 9-12 4D

FOREST SERVICE (USDA), COWEETA HYDROLOGIC LAB. FRANKLIN, N.C.

FOREST SERVICE (USDA), COWEETA HYDROLOGIC LAB. FRANKLIN, N.C.
Effects of Management Practices on Water Quality and Quantity: Coweeta Hydrologic Laboratory, North Carolina,
W76-02275 9-05 5G

Coniferous Stands Characterized with the Weibull Distribution,
W76-02276 9-05 2I

FOREST SERVICE (USDA), DURHAM, N.H. NORTHEASTERN FOREST EXPERIMENT STATION.
Evapotranspiration,
W76-00702 9-02 2D

Streamflow Response to Forest Cutting and Revegetation,
W76-04698 9-10 4C

FOREST SERVICE (USDA), FLAGSTAFF, ARIZ. ROCKY MOUNTAIN FOREST AND RANGE EXPERIMENT STATION.
Modeling Management of Ponderosa Pine Forest Resources,
W76-02672 9-06 4C

Multiple use Effects of Manipulating Pinyon-Juniper,
W76-02723 9-06 3B

Effects of Pinyon-Juniper Removal on Natural Resource Products and Uses in Arizona,
W76-08108 9-16 4C

Multiple Use Evaluations on Ponderosa Pine Forest Land,
W76-08109 9-16 4A

Pinyon-Juniper Control--Does it Pay,
W76-08110 9-16 4A

Present and Future Multiple use Demands on the Pinyon-Juniper Type,
W76-08430 9-16 4A

FOREST SERVICE (USDA), FORT COLLINS, COLO. ROCKY MOUNTAIN FOREST AND RANGE EXPERIMENT STATION.
Carbon Black Increases Snowmelt and Forage Availability On Deer Winter Range in Colorado,
W76-02518 9-06 3B

A Possible Relation of Albedo to the Density and Grain Size of Natural Snow Cover,
W76-02704 9-06 2C

The Black Hills (South Dakota) Flood of June 1972: Impacts and Implications,
W76-06360 9-13 2E

Mine Spoil Reclamation Research at the Belle Ayr Mine, Northeast Wyoming,
W76-06361 9-13 5G

Recovery from Soil Compaction on Bluegrass Range in the Black Hills,
W76-06362 9-13 4D

Trend Surface Analysis of Powder River Basin, Wyoming - Montana,
W76-06363 9-13 4A

Coal Mine Spoil as a Growing Medium: Amax Belle Ayr South Mine, Gillette, Wyoming,
W76-06364 9-13 5G

FOREST SERVICE (USDA). FRANKLIN, N.C. COWEETA HYDROLOGIC LAB.
Research in Aquatic Habitats at the Southeastern Station,
W76-02273 9-05 4C

Simulation of Evapotranspiration and Drainage from Mature and Clear-Cut Deciduous Forests and Young Pine Plantation,
W76-02426 9-05 2D

Atmospheric Input of Some Cations and Anions to Forest Ecosystems in North Carolina and Tennessee,
W76-12838 9-24 2K

FOREST SERVICE (USDA), FRANKLIN, N. C. COWEETA HYDROLOYIC LAB.
Forest Management Impacts on Cold Water Fisheries,
W76-02274 9-05 4C

FOREST SERVICE (USDA), GRAND RAPIDS, MINN. NORTH CENTRAL FOREST EXPERIMENT STATION.
A Controlled Environment System for Measuring Plant-Atmosphere Gas Exchange,
W76-02277 9-05 2I

Peat Temperature Regime of a Minnesota Bog and the Effect of Canopy Removal,
W76-12174 9-23 2G

FOREST SERVICE (USDA), LARAMIE, WYO. FOREST RANGE AND WATERSHED LAB.
Oversnow Runoff Events Affect Streamflow and Water Quality,
W76-03965 9-08 4D

Sediment Transport from Big Sagebrush Watersheds,
W76-03966 9-08 4D

Hydrologic Relations on Undisturbed and Converted Big Sagebrush Lands: The Status of Our Knowledge,
W76-03967 9-08 2A

FOREST SERVICE (USDA), LARAMIE, WYO. ROCKY MOUNTAIN FOREST AND RANGE EXPERIMENT STATION.
Sediment Transport from Big Sagebrush Watersheds,
W76-02725 9-06 4D

Predicting Profiles of Snowdrifts in Topographic Catchments,
W76-04288 9-09 2C

FOREST SERVICE (USDA), LARAMIE, WYO. ROCKY MOUNTAIN FOREST AND WATERSHED LAB.
An Improved Recording Gage for Blowing Snow,
W76-02700 9-06 7B

FOREST SERVICE (USDA), ODGEN, UTAH. INTERMOUNTAIN FOREST AND RANGE EXPERIMENT STATION.
Water Potentials of Salsola Kali L. at Differing Levels of Substrate Water Availability,
W76-00705 9-02 2I

FOREST SERVICE (USDA), OGDEN, UTAH. INTERMOUNTAIN FOREST AND RANGE EXPERIMENT STATION.
Soil Water Depletion by Lodgepole Pine on Glacial Till,
W76-01221 9-03 2G

Land-Capability Classification of the Lake Tahoe Basin, California-Nevada, A Guide for Planning,
W76-01346 9-03 4A

Acid Mine Rehabilitation Problems at High Elevations,
W76-02281 9-05 5B

Predicting Effects on Fish of Fire Retardants in Streams,
W76-02519 9-06 5C

Clearcutting and Burning Slash Alter Quality of Stream Water in Northern Idaho,
W76-02522 9-06 4A

Time Trends in Riverbed Sediment Composition in Salmon and Steelhead Spawning Areas: South Fork Salmon River, Idaho,
W76-07018 9-14 2J

Sediment Storage in Channels Draining Small Forested Watersheds in the Mountains of Central Idaho,
W76-07019 9-14 4D

Sedimentation in Relation to Logging Activities in the Mountains of Central Idaho,
W76-07020 9-14 4D

Erosional Effects of Wildfire and Logging in Idaho,
W76-07027 9-14 4D

FOREST SERVICE (USDA), OXFORD, MISS. SOUTHERN FOREST EXPERIMENT STATION.
Stormflows and Erosion After Tree-Length Skidding on Coastal Plain Soils,
W76-03756 9-08 4C

Harvesting Southern Forests: A Threat to Water Quality,
W76-05945 9-12 5B

Potential Effects of Forest Management Practices on Stormflow Sources and Water Quality,
W76-12173 9-23 5C

FOREST SERVICE (USDA), PARSONS, W. VA. NORTHEASTERN FOREST EXPERIMENT STATION.
Timber Harvest as an Agent of Forest Stream Channel Modification,
W76-07017 9-14 4C

Effects of Management Practices on Water Quality and Quantity: Fernow Experimental Forest, W. Virginia,
W76-07021 9-14 4C

Forest Management and Nutrient Cycling in Eastern Hardwoods,
W76-07025 9-14 4C

FOREST SERVICE (USDA), RAPID CITY, S. D. ROCKY MOUNTAIN FOREST AND RANGE EXPERIMENT STATION.
Recovery from Soil Compaction on Bluegrass Lange in the Black Hills,
W76-06405 9-13 2G

FOREST SERVICE (USDA), ROLLA, MO. CLARK NATIONAL FOREST.
Ground-Water Quality Variation in Phelps County, Missouri,
W76-12991 9-24 5B

FOREST SERVICE (USDA), SILVER CITY, N. MEX. GILA NATIONAL FOREST.
Snowmelt Runoff Efficiencies on Arizona Watersheds,
W76-02866 9-06 2C

Characterization of Snowmelt Runoff Efficiencies,
W76-02871 9-06 2C

Snowmelt Runoff Efficiencies on Arizona Watersheds,
W76-03581 9-08 3B

OREST SERVICE (USDA). SOUTHERN OREST EXPERIMENT STATION.
Pine Management Influences the Southern Water Resource,
W76-05616 9-12 5B

OREST SERVICE (USDA), SPRINGERVILLE, RIZ. APACHE-SITGREAVES NATIONAL OREST.
Black River Barometer Watershed in Relation to the Resource Manager,
W76-06599 9-13 4D

OREST SERVICE (USDA), ST. PAUL, MINN. ORTH CENTRAL FOREST EXPERIMENT TATION.
Streamflow Chemistry and Nutrient Yields from Upland Peatland Watersheds in Minnesota,
W76-07022 9-14 2K

Specific Conductance Identifies Perched and Ground Water Lakes,
W76-07023 9-14 2H

Sewage Effluent Infiltrates Frozen Forest Soil,
W76-09288 9-17 5B

Effect of Plantation Establishment on Soil and Soil Water in Southwestern Wisconsin,
W76-11365 9-21 4D

Snowmelt Runoff from Planted Conifers in Southwestern Wisconsin,
W76-11369 9-21 4A

OREST SERVICE (USDA), TEMPE, ARIZ. OREST HYDROLOGY LAB.; AND FOREST ERVICE (USDA), TEMPE, ARIZ. ROCKY IOUNTAIN FOREST AND RANGE XPERIMENT STATION.
Windbreaks May Increase Water Yield from the Grassland Islands in Arizona's Mixed Conifer Forests,
W76-12477 9-23 3B

OREST SERVICE (USDA), TEMPE, ARIZ. OCKY MOUNTAIN FOREST AND RANGE XPERIMENT STATION.
Stages of Development of Gullies in the West,
W76-02727 9-06 2J

Managing Chaparral for Water and Other Resources in Arizona,
W76-06597 9-13 3B

OREST SERVICE (USDA), TUCSON, ARIZ. OCKY MOUNTAIN FOREST AND RANGE XPERIMENT STATION.
Influence of Precipitation on Perennial Grass Production in the Semidesert Southwest,
W76-00195 9-01 4A

Hydrology of Black Mesa Watersheds, Western Colorado,
W76-01233 9-03 4D

Energy Budgets for Three Small Plots--Substantiation of Priestley and Taylor's Large-Scale Evaporation Parameter,
W76-01474 9-03 2D

Vegetation Responses to Grazing, Rainfall, Site Condition, and Mesquite Control on Semidesert Range,
W76-02663 9-06 2I

ORSCHUNGSINSTITUT BERGOF G.M.B.H., UBINGEN (WEST GERMANY). (ASSIGNEE).
Polyimide Membrane and Process for Making Same,
W76-04618 9-10 3A

FORT WORTH, TEX.
Ordinance Amending the Comprehensive Zoning Ordinance No. 3011 (For Flood Hazard Protection, Fort Worth, Texas).
W76-03599 9-08 6F

FOSTER-MILLER ASSOCIATES, INC., WALTHAM, MASS.
Feasibility of Hydraulic Transport of Ground Household Refuse Through Sewer Appurtenances,
W76-05070 9-11 5D

FOSTER WHEELER CORP., LIVINGSTON, N. J.
Foster Wheeler Corporation Conceptual Design of a 50 MGD Desalination Plant.
W76-00169 9-01 3A

FOSTER WHEELER JOHN BROWN BOILERS LTD., LONDON (ENGLAND). (ASSIGNEE).
Waste Treatment Plants,
W76-09427 9-18 5E

FOUNDATION FOR APPLIED ECOLOGY, EDAM (NETHERLANDS).
'Ware the Wadden Sea,
W76-10985 9-20 6G

FOUNDATION FOR OCEAN RESEARCH, SAN DIEGO, CALIF.
Anisotropic Sand Transport in Tidal Inlets,
W76-09955 9-18 2L

FOUNDATION OF CANADA ENGINEERING CORP. LTD., HALIFAX (NOVA SCOTIA).
Separation Processes Used for Pollution Control in the Pulp and Paper Industry,
W76-09340 9-17 5D

FOX (F. M.) AND ASSOCIATES, INC., WHEAT RIDGE, COLO.
Water Monitoring - Jim Bridger Project - Sweetwater County, Wyoming,
W76-09349 9-17 5A

FOXBORO CO., MASS.
Controlling PH in Waste Streams: Part I--Designing The Treatment Facility,
W76-05298 9-11 5D

Controlling PH in Waste Streams: Part II--Obtaining Consistent Results,
W76-05299 9-11 5D

FRAM CORP., EAST PROVIDENCE, R.I. (ASSIGNEE).
Treating Waste,
W76-01718 9-04 5D

FRANTZ CO., HOUSTON, TEX.
Refinery Wastewater Treatment and Reuse,
W76-07759 9-15 5D

FREEPORT PUBLIC WORKS, N. Y.
Polyethylene Pipe Insertion Rehabilitates Old Sewers,
W76-09459 9-18 8G

FREIBURG UNIV. (WEST GERMANY). LIMBOLOGISCHES INSTITUT.
Studies on the Biology of Dreissena Polymorpha Pallas in Lake Constance, (In German),
W76-07400 9-14 5C

FREIBURG UNIV. (WEST GERMANY). LIMNOLOGISCHES INSTITUT.
The Determination of Carbohydrates in Natural Waters: A Comparison of Paper Chromatographic: Colorimetric and Enzymatic Methods, (In German),
W76-06773 9-13 5A

FREIE UNIVERSITAET BERLIN (WEST GERMANY). INSTITUT FUER ANGEWANDTE ZOOLOGIE.
The 'Rheinschnaken' (Diptera, Culicidae) Species, Life Style, Ecology, Mass Development, and Control, (In German),
W76-06768 9-13 2I

FRESHWATER BIOLOGICAL ASSOCIATION, SHREWSBURY (ENGLAND). MERES LAB.
Interrelations of Photosynthetic Behaviour and Buoyancy Regulation in a Natural Population of a Blue-Green Alga,
W76-04587 9-10 5C

Temperature and Nutrient Concentration in the Characterization of the Water Supply to a Small Kataglacial Lake Basin,
W76-04591 9-10 5C

FRESHWATER BIOLOGICAL ASSOCIATION, WAREHAM (ENGLAND). RIVER LAB.
Notes on the Production of Stream Bryophytes in the High Pyrenees (France),
W76-06129 9-12 2I

Improved Methods for the Measurement of Dissolved and Particulate Organic Carbon in Fresh Water and Their Application to Chalk Streams,
W76-07428 9-14 5A

FRESHWATER BIOLOGICAL ASSOCIATION, WAREHAM (ENGLAND). WINDERMERE LAB.
Population Dynamics and Production of Daphnia Hyalina in a Eutrophic Reservoir,
W76-11457 9-21 5C

FRESHWATER FISHERIES LAB., PITLOCHRY (SCOTLAND).
An Experiment of Faster Growth of Salmon Salmo Salar (L.) in a Scottish Stream,
W76-01537 9-04 8I

FRESHWATER FISHERIES RESEARCH LAB., TOKYO (JAPAN).
On Environmental Factors of Eel Pools: I. Chemistry of the Water and Soil and Plankton in October 1965 and July 1966, (In Japanese),
W76-12275 9-23 5C

Utilization of Petroleum Yeast in Fish Feed: II. Effect on Growth and Body Lipids of Rainbow Trout Fingerlings Raised in Cages, (In Japanese),
W76-12960 9-24 2I

FRIEBURG UNIV. (WEST GERMANY). LIMNOLOGISCHES INSTITUT.
The Effect of Water Temperature of the Incubation Time of a Pituitary Injection in Carp (Cyprinus Carpio L.) Under Field Conditions, (In German),
W76-06787 9-13 5C

FRIENDSWOOD DEVELOPMENT CO. BAYPORT, TEX.
Bayport Centralizes Treatment of Industrial Wastes,
W76-02337 9-05 5D

FRONTIER MACHINERY CO., WALLA WALLA, WASH. (ASSIGNEE).
Alignment Control Apparatus for Center Pivot Irrigation Equipment,
W76-10957 9-20 3F

FRUMKIN (NORMAN), WASHINGTON, D. C.
Capital Investment for Water Pollution Control At The State and Local Level,
W76-02620 9-06 5G

FUJI ELECTRIC CO. LTD., TOKYO (JAPAN).
The Operation System of Urban Sewerage Treatment (Toshi gesuishorijo no opereshon shisutemu ni tsuite),
W76-00795 9-02 5D

FUJI PHOTO FILM CO. LTD., KANAGAWA (JAPAN). (ASSIGNEE)
Process of Treating Waste Water,
W76-01726 9-04 5D

Method of Treating Waste Liquids from Photographic Processings,
W76-05963 9-12 5D

GAF CORP., NEW YORK. (ASSIGNEE).
Flocculation of Suspended Solids,
W76-10468 9-19 5D

GALSON TECHNICAL SERVICES, INC., SYRACUSE, N.Y. (ASSIGNEE).
Methods for Removing Fluoborates from Aqueous Media,
W76-12398 9-23 5D

GAME BIOLOGY STATION, RONDE (DENMARK).
Studies on Oil Pollution and Seabirds in Denmark 1968-1971,
W76-12256 9-23 5C

GANNETT FLEMING CORDDRY AND CARPENTER, INC., HARRISBURG, PA.
Activated Sludge Process with Alum Addition and Heat Treatment,
W76-09456 9-18 5D

GANNETT, FLEMING, CORDDRY AND CARPENTER, INC., HARRISBURG, PA. APPLIED SCIENCE GROUP.
Fight Floatables with Chemicals,
W76-05305 9-11 5D

GANNETT, FLEMING, CORDDRY AND CARPENTER, INC., HARRISBURG, PA. POLLUTION CONTROL DIV.
New York Takes Another Giant Step,
W76-09710 9-18 5D

GARDEN STATE TANNING CO., READING, PA.
Some Aspects of Tannery Effluent Control,
W76-08175 9-16 5D

GARTNER RESEARCH AND DEVELOPMENT CO., BARTLETT, ILL. (ASSIGNEE)
Water Purification Device,
W76-01725 9-04 5F

GARY AIRCRAFT CORP. SAN ANTONIO, TEX. (ASSIGNEE).
Process for Biochemical Reactions,
W76-05542 9-12 5D

GASTON COUNTY DYEING MACHINE CO. MOUNT HOLLY, N. C. (ASSIGNEE).
Filtering Apparatus and Process,
W76-05546 9-12 5D

GATES (W. E.) AND ASSOCIATES, INC., FAIRFAX, VA.
Wastewater Sludge Utilization and Disposal Costs,
W76-09773 9-18 5D

GDANSK TECHNICAL UNIV. (POLAND).
A Mathematical Model for Forecasting the Flow of the Sola River,
W76-00298 9-01 2A

GDANSK UNIV. (POLAND). INST. OF OCEANOGRAPHY.
Changes in Plankton Resulting From Eutrophication of a Baltic Firth,
W76-01948 9-04 5C

GEALER (SAUL), LOS ANGELES, CALIF. (ASSIGNEE).
Water Treatment Process and Apparatus,
W76-09855 9-18 5D

GERRUEDER BELLMER K.G. MASCHINENFABRIK, NIEFERN (WEST GERMANY). (ASSIGNEE).
Filter Press,
W76-10481 9-19 5D

GENERAL ACCOUNTING OFFICE, WASHINGTON, D.C.
National Attempts to Reduce Losses from Floods by Planning for and Controlling the Uses of Flood-Prone Lands.
W76-06822 9-14 6F

GENERAL AMERICAN TRANSPORTATION CORP., CHICAGO, ILL.
Hauling Digested Sludge in Tank Cars,
W76-03844 9-08 5E

GENERAL AMERICAN TRANSPORTATION CORP., NILES, ILL. GENERAL AMERICAN RESEARCH DIV.
Onshore Treatment System for Sewage from Watercraft Retention Systems,
W76-07058 9-14 5D

GENERAL ATOMIC CO., SAN DIEGO, CALIF. ROGA SYSTEMS DIV.
Waste-Treatment Applications of Reverse Osmosis,
W76-05294 9-11 5D

GENERAL ELECTRIC CO., BELTSVILLE, MD.
LANDSAT Measures of Water Clarity,
W76-03237 9-07 5A

GENERAL ELECTRIC CO., BURLINGTON, VT.
General Electric Company Conceptual Design of a 50 MGD Desalination Plant.
W76-00165 9-01 3A

GENERAL ELECTRIC CO., PHILADELPHIA, PA. RE-ENTRY AND ENVIRONMENTAL SYSTEMS DIV.
The Investigation of Ion Removal From Water and Wastewater,
W76-07060 9-14 5D

A Study of the Effects of Detergents on Typical Bilge Waters and Correlation of Oil Particle Sizes,
W76-11939 9-22 5C

Shipboard Oil-in-Water Content Monitor Based on Small Angle Forward Light Scattering,
W76-13094 9-24 5G

GENERAL ELECTRIC CO., SANTA BARBARA, CALIF. CENTER FOR ADVANCED STUDIES.
Status Report on Heat Storage Wells,
W76-11701 9-22 5G

GENERAL ELECTRIC CO., SCHENECTADY, N.Y. ENVIRONMENTAL PROTECTION OPERATION.
Wastes Recycling Before Final Waste Disposal,
W76-03838 9-08 5D

GENERAL ELECTRIC CO., ST. PETERSBURG, FLA. NEUTRON DEVICES DEPT.
Land Spreading of Industrial Waste Water and the Effluent from a Secondary Treatment Facility,
W76-03350 9-07 5D

GENERAL MOTORS CORP., WARREN, MICH. ENVIRONMENTAL ACTIVITIES STAFF.
Industrial Requirements for Effective Pollution Control. Automobile Industry,
W76-03498 9-07 5G

GENERAL PUBLIC UTILITIES SERVICE CORP., PARSIPPANY, N.J.
The Forked River Program: A Case Study in Saltwater Cooling,
W76-04827 9-10 5B

GENERAL SIGNAL CORP., ROCHESTER, N. Y. (ASSIGNEE).
Stabilization of Waste Material,
W76-09425 9-18 5D

GEOCHEMISTRY RESEARCH ASSOCIATION, TOKYO (JAPAN).
The Plutonium Content of Pacific Ocean Waters,
W76-08601 9-16 5C

GEOLOGIC SURVEY OF PUERTO RICO, SAN JUAN.
A Survey of the Water Resources of St. Croix, Virgin Islands,
W76-04399 9-09 4A

GEOLOGICAL SCIENCES INST., LONDON (ENGLAND).
The Hydrogeological Investigation of Fissure-Flow by Borehole Logging Techniques,
W76-00417 9-01 8G

GEOLOGICAL SOCIETY OF LONDON (ENGLAND).
Geological Society Engineering Group Working Party Report on The Logging of Rock Cores for Engineering Purposes.
W76-00412 9-01 8G

GEOLOGICAL SURVEY, ALBANY, N. Y.
Hydrologic Data Network for the Oswego River Basin, New York,
W76-00654 9-02 7B

Floodflow Characteristics at Proposed Bridge Site on Mohawk River, Whitesboro, New York,
W76-02136 9-05 4A

Floodflow Characteristics at Proposed Bridge Site on West Branch Delaware River, Delhi, New York,
W76-02137 9-05 4A

Water Resources of the Black River Basin, New York,
W76-04982 9-10 4A

Chemical Quality of Water in Community Systems in New York, May 1973-1974.
W76-04983 9-10 5A

Streamflow in the Lake Ontario Drainage Basin, New York Part, 1972-73,
W76-04991 9-10 2E

Floods in New York, 1972, with Special Reference to Tropical Storm Agnes,
W76-07123 9-14 2E

Floodflow Characteristics at Proposed Bridge Site on Mohawk River in Towns of Frankfort and Schuyler, Herkimer County, New York,
W76-11079 9-20 4A

Ground-Water Flow and Pollution at a Well Field, Olean, New York,
W76-11417 9-21 5B

Factors Affecting Declining Water Levels in a Sewered Area of Nassau County, New York,
W76-13084 9-24 5B

EOLOGICAL SURVEY, ALBUQUERQUE, N. IEX.
Map Showing Thickness of the Permian (Guadalupian) Captain Aquifer, Southeast New Mexico and West Texas,
W76-02134 9-05 7C

Evaluation of Monitoring of Radioactive Solid-Waste Burial Sites at Los Alamos, New Mexico,
W76-02488 9-05 5B

Mixing of Thermal and Nonthermal Waters in the Margin of the Rio Grande Rift, Jemez Mountains, New Mexico,
W76-03393 9-07 2K

Chemical Quality of Ground Water in the Northern Part of the Albuquerque-Belen Basin, Bernalillo and Sandoval Counties, New Mexico,
W76-03394 9-07 5B

Evaluation and Proposed Study of Potential Ground-Water Supplies, Gallup Area, New Mexico,
W76-03905 9-08 4B

Water-Quality Data from Oil and Gas Wells in Part of the Permian Basin, Southeastern New Mexico and Western Texas,
W76-04395 9-09 7C

Interpretation of Geologic and Hydrologic Data from the Ray-1 Well, City of Gallup, McKinley County, New Mexico,
W76-04396 9-09 4B

Structure of the Permain Guadalupian Capitan Aquifer, Southeast New Mexico and West Texas,
W76-04987 9-10 7C

Factors Altering the Microclimate in Carlsbad Caverns, New Mexico,
W76-06452 9-13 2D

Ground-Water in New Mexico, 1973,
W76-06460 9-13 7C

Revised Estimates of Mean-Annual Runoff and Summary of Precipitation and Discharge Data for Post Headquarters Area, White Sands Missile Range, New Mexico,
W76-07131 9-14 7C

Annual Water-Resources Review, White Sands Missile Range, 1975--A Basic-Data Report,
W76-07588 9-15 4B

The Effects of Ground-Water Development on the Water Supply in the Post Headquarters Area, White Sands Missile Range, New Mexico,
W76-09137 9-17 5B

Ground-Water Levels in New Mexico, 1974,
W76-11073 9-20 2F

Flood Discharge of Streams in New Mexico as Related to Channel Geometry,
W76-12294 9-23 2E

GEOLOGICAL SURVEY, ANCHORAGE, ALASKA.
Ground-water Quality Beneath Solid-Waste Disposal Sites at Anchorage, Alaska,
W76-00656 9-02 5B

Index of Surface Water Quality Records to September 30, 1973, Southeast Alaska,
W76-03400 9-07 7C

Preliminary Report on Water Availability in the Lower Ship Creek Basin, Anchorage, Alaska--With Special Reference to the Fish Hatchery on Fort Richardson and a Proposed Fish-Hatchery Site Near the Elmendorf Air Force Base Powerplant,
W76-07595 9-15 8I

Water-Resources Reconnaissance of St. George Island, Pribilof Islands, Alaska.
W76-07601 9-15 4A

Channel Erosion Surveys Along Taps Route, Alaska, 1974,
W76-08559 9-16 2J

Evaluation of Seismicity and Earthquake Shaking at Offshore Sites,
W76-09379 9-17 5G

Epifauna at Jackson Point in Port Valdez, Alaska, December 1970 through September 1972,
W76-13070 9-24 5A

GEOLOGICAL SURVEY, AUGUSTA, MAINE.
Ground-Water Favorability and Surficial Geology of the Machias-Lubec Area, Washington County, Maine,
W76-02151 9-05 7C

Limnological Data Report for the Maine Department of Environmental Protection--U.S. Geological Survey Cooperative Lake Studies Project,
W76-02492 9-05 7C

GEOLOGICAL SURVEY, AUSTIN, TEX.
Water-Quality Records for Selected Reservoirs in Texas, 1972-73 Water Years,
W76-00086 9-01 7C

Hydrologic Data for Little Elm Creek, Trinity River Basin, Texas, 1973,
W76-01181 9-03 2E

Hydrologic Data for Cow Bayou, Brazos River Basin, Texas, 1973,
W76-02145 9-05 7C

Hydrologic Data for Urban Studies in the Houston, Texas Metropolitan Area, 1973,
W76-02961 9-06 7C

Hydrologic Data for Urban Studies in the San Antonio, Texas Metropolitan Area, 1973,
W76-03406 9-07 7C

Bibliography of United States Geological Survey Reports on the Geology and Water Resources of Texas, 1887-1974,
W76-04980 9-10 10C

Index of Surface Water Stations in Texas, January 1976.
W76-07127 9-14 7C

Water-Resources Investigations in Texas, Fiscal Year 1976.
W76-07128 9-14 7C

Annotated Bibliography of Texas Water Resources Reports of the Texas Water Development Board and United States Geological Survey Through August 1974,
W76-07605 9-15 10C

Summary Appraisals of the Nation's Ground-Water Resources--Texas-Gulf Region,
W76-08051 9-15 2F

Records of Wells, Drillers' Logs, Water-Level Measurements, and Chemical Analyses of Ground Water in Brazoria, Fort Bend, and Waller Counties, Texas, 1966-74,
W76-08569 9-16 4B

Records of Wells, Drillers' Logs, Water-Level Measurements, and Chemical Analyses of Ground Water in Harris and Galveston Counties, Texas, 1970-74,
W76-08570 9-16 4B

Records of Wells, Drillers' Logs, Water-Level Measurements, and Chemical Analyses of Ground Water in Chambers, Liberty, and Montgomery Counties, Texas, 1966-74,
W76-09144 9-17 7C

Hydrologic Data for Mountain Creek, Trinity River Basin, Texas, 1974,
W76-09829 9-18 7C

Digital Model for Simulated Effects of Ground-Water Pumping in the Hueco Bolson, El Paso Area, Texas, New Mexico, and Mexico,
W76-10140 9-19 4B

Hydrologic Data for Urban Studies in the Fort Worth, Texas Metropolitan Area, 1974,
W76-10141 9-19 7C

Hydrologic Data for Little Elm Creek, Trinity River Basin, Texas, 1974,
W76-10144 9-19 7C

Hydrologic Data for Urban Studies in the Austin, Texas Metropolitan Area, 1974,
W76-10145 9-19 7C

Hydrologic Data for Cow Bayou, Brazos River Basin, Texas, 1974,
W76-10146 9-19 7C

Hydrologic Data for North Creek Trinity River Basin, Texas, 1974,
W76-10147 9-19 7C

Hydrologic Data for Urban Studies in the San Antonio, Texas Metropolitan Area, 1974,
W76-11413 9-21 7C

Recent Advances in Artificial Recharge,
W76-12295 9-23 4B

A Hypothesis of Ion Filtration in a Potable-Water Aquifer System,
W76-12803 9-24 4B

Hydrologic Data for Urban Studies in the Dallas, Texas Metropolitan Area, 1974,
W76-12804 9-24 7C

GEOLOGICAL SURVEY, BALTIMORE. MARYLAND
Research and Investigation of Geology, Mineral, and Water Resources of Maryland.
W76-09565 9-18 4A

Differentiation of Serpentinitic from Non-Serpentinitic Ultramafic Rocks in ERTS-1 MSS Imagery,
W76-09566 9-18 4A

GEOLOGICAL SURVEY, BALTIMORE. MARYLAND

Observation of Linear Features in the Maryland Piedmont as Shown on ERTS-1 MSS Imagery and Aircraft Support Photography,
W76-09567 9-18 4A

Maryland Chesapeake Bay Beaches - General Distribution and Classification,
W76-09568 9-18 2L

The Relationship of the Nearshore Longshore Bar and Sand Waves at Ocean City, Maryland,
W76-09569 9-18 2L

Linear Distribution of the High Marsh Vegetation Communities of the Lower Eastern Shore and its Geological Significance,
W76-09570 9-18 2L

GEOLOGICAL SURVEY, BATON ROUGE, LA.

Geohydrology and Water Quality of the Mississippi River Alluvial Aquifer, Northeastern Louisiana,
W76-01180 9-03 2F

Water Resources Data for Louisiana, Water Year 1975.
W76-03907 9-08 7C

Geohydrology of the Evangeline and Jasper Aquifers of Southwestern Louisiana,
W76-05861 9-12 2F

Surface-Water Resources of the Tangipahoa, Tchefuncta, and Natalbany River Basins, Southeastern Louisiana,
W76-08056 9-15 4A

Geohydrologic Significane of Lithofacies of the Carrizo Sand of Arkansas, Louisiana, and Texas and the Meridian Sand of Mississippi,
W76-08061 9-15 2F

GEOLOGICAL SURVEY, BAY SAINT LOUIS, MISS.

Canal Evaporation Determined by Thermal Modeling,
W76-01582 9-04 2D

Steady-State Segmented Dissolved-Oxygen Model,
W76-05855 9-12 5B

Determination, Storage, and Preservation of Low Molecular Weight Hydrocarbon Gases in Aqueous Solution,
W76-09834 9-18 2K

U.S. Geological Survey Water Quality Monitor, Operations Manual,
W76-11080 9-20 5A

GEOLOGICAL SURVEY, BAY ST. LOUIS, MISS.

Reference Guide to Methodology for the Analysis of Organic Compounds.
W76-07590 9-15 5A

GEOLOGICAL SURVEY, BAY ST. LOUIS, MISS., AND GEOLOGICAL SURVEY, RESTON, VA.

Simplified Routing of Dam Break Waves,
W76-11085 9-20 4A

GEOLOGICAL SURVEY, BISMARCK, N. DAK.

Ground-Water Basic Data for Grant and Sioux Counties, North Dakota,
W76-00653 9-02 7C

Magnitude and Frequency of Floods in Small Drainage Basins in North Dakota,
W76-04410 9-09 4A

Water-Resources Investigations in the Fort Union Coal Region, North Dakota, 1975-76.
W76-04985 9-10 4A

Geology and Ground-Water Resources of Hettinger and Stark Counties, North Dakota,
W76-08043 9-15 4B

Ground-Water Basic Data for Dunn County, North Dakota.
W76-12786 9-24 7C

GEOLOGICAL SURVEY, BOISE, IDAHO.

Ground-Water Levels and Well Records for Current Observation Wells in Idaho, 1974,
W76-02139 9-05 7C

Geothermal Investigations in Idaho: Part 2. An Evaluation of Thermal Water in the Bruneau-Grand View Area, Southwest Idaho,
W76-02655 9-06 4B

The Channels and Waters of the Upper Salmon River Area, Idaho,
W76-03405 9-07 2E

GEOLOGICAL SURVEY, BOSTON, MASS.

Reclamation by Tubewell Drainage in Rechna Doab and Adjacent Areas, Punjab Region, Pakistan,
W76-02484 9-05 4B

Characteristics of Lakes, Ponds, and Reservoirs of New Hampshire, with a Bibliography,
W76-04978 9-10 2H

Evaluation of Data Availability and Examples of Modeling for Ground-Water Management on Cape Cod, Massachusetts,
W76-05856 9-12 4B

Ground-Water Levels on Boston Peninsula, Massachusetts,
W76-07119 9-14 7C

GEOLOGICAL SURVEY, CARSON CITY, NEV.

Ground-Water Data Near the Northwest Shore of Topaz Lake, Douglas County, Nevada,
W76-05424 9-11 7C

A Preliminary Evaluation of the Chemical Character of Water Near the Northwest Shore of Topaz Lake, Douglas County, Nevada,
W76-11674 9-22 5A

A Brief Hydrologic Appraisal of the July 3-4, 1975, Flash Flood in Las Vegas Valley, Nevada.
W76-12806 9-24 4A

Estimating Peak Discharges from Small Drainages in Nevada According to Basin Areas Within Elevation Zones,
W76-13080 9-24 4A

GEOLOGICAL SURVEY, CHAMPAIGN, ILL.

Floods in Lombard Quadrangle, Illinois,
W76-01183 9-03 2E

Drainage Areas for Illinois Streams,
W76-03913 9-08 7C

Floods in Palatine Quadrangle, Illinois,
W76-07116 9-14 7C

GEOLOGICAL SURVEY, CHEYENNE, WYO.

Geohydrologic Reconnaissance and Measurement of Perennial Streams Crossing Outcrops of the Madison Limestone, Northeastern Wyoming, 1974,
W76-05425 9-11 2E

Water Resources of the Thrust Belt of Western Wyoming,
W76-06448 9-13 7C

Floodflow Characteristics at Bridge Site on Interstate Highway 80, The Green River Near Green River, Wyoming,
W76-07120 9-14 4C

Water-Resources Investigations of the U.S. Geological Survey in the Major Coal and Oil Shale Areas of Wyoming, 1975-76,
W76-09833 9-18 4A

Spring Flow from Pre-Pennsylvania Rocks in the Southwestern Part of the Navajo Indian Reservation, Arizona,
W76-11673 9-22 2F

Digital Model to Predict Effects of Pumping from the Arikaree Aquifer in the Dwyer Area, Southeastern Wyoming,
W76-12277 9-23 4B

A Plan for Study of Water and Its Relation to Economic Development in the Green River and Great Divide Basins in Wyoming,
W76-12805 9-24 6D

GEOLOGICAL SURVEY, COLLEGE PARK, MD.

Determination of Tungsten in Geologic Materials by Neutron Activation Analysis,
W76-03309 9-07 5A

GEOLOGICAL SURVEY, COLUMBIA, S.C.

Ground-Water Resources of Orangeburg County, South Carolina,
W76-02496 9-05 4B

Water Resources Data for South Carolina, Water Year 1975.
W76-13066 9-24 7C

GEOLOGICAL SURVEY, COLUMBUS, OHIO.

The Ground-Water Situation in the Circleville Area, Pickaway County, South-Central Ohio,
W76-00661 9-02 4B

Digital Model Simulation of the Glacial-Outwash Aquifer at Dayton, Ohio.
W76-04409 9-09 2F

Geologic Structure of Near-Surface Rocks in Western Ohio,
W76-04989 9-10 2F

Hydrologic Concepts of Artificially Recharging the Floridan Aquifer in Eastern Orange County, Florida--A Feasibility Study,
W76-09150 9-17 4B

Index of Current Water Resources Projects and Data Collection Activities in Ohio, Water Year 1976,
W76-11685 9-22 7C

GEOLOGICAL SURVEY, COLUMBUS, OHIO. WATER RESOURCES DIV.

Change in Drawdown Caused by Enlarging a Well in a Dolomite Aquifer,
W76-10088 9-19 4B

GEOLOGICAL SURVEY, CONCORD, N.H.

Availability of Ground Water in the Androscoggin River Basin, Northern New Hampshire,
W76-05862 9-12 7C

Availability of Ground Water in the Upper Connecticut River Basin, Northern New Hampshire,
W76-07114 9-14 7C

ailability of Ground Water in the migewasset and Winnipesaukee River sins, Central New Hampshire,
76-07589 9-15 7C

ailability of Ground Water in the Middle nnecticut River Basin, West-Central New mpshire,
76-13062 9-24 7C

LOGICAL SURVEY, DENVER, COLO.
ater for Wyoming's Coal,
76-00090 9-01 3B

tential of Madison Group and Associated cks to Supply Industrial Water Needs, wder River Basin, Wyoming and Montana,
76-00666 9-02 4B

ap Showing Flood-Prone Areas, Colorado rings-Castle Rock Area, Front Range Urban rridor, Colorado,
76-00668 9-02 7C

ap Showing Availability of Hydrologic Data blished as of 1974 by the U.S. Environmental ta Service and by the U.S. Geological Sur-y and Cooperating Agencies, Colorado rings-Castle Rock Area, Front Range Urban rridor, Colorado,
76-00669 9-02 7C

ap Showing Flood-Prone Areas, Greater enver Area, Front Range Urban Corridor, olorado,
76-01186 9-03 2E

eologic Control of Supply and Quality of ater in the Mountainous Part of Jefferson ounty, Colorado,
76-01585 9-04 7C

ischarge and Flow Distribution, Columbia iver Estuary,
76-02143 9-05 5B

round-Water Levels in Wyoming, 1974,
76-02964 9-06 7C

ydrology of the South Platte River Valley, ortheastern Colorado,
76-03398 9-07 4B

nalog Model Study of the Hydrology of the an Luis Valley, South-Central Colorado,
76-03403 9-07 4B

ater Quality, Fountain and Jimmy Camp Val-ys, Colorado, 1973,
76-03404 9-07 5B

tream Quality in Relation to Mine Drainage in olorado,
76-03900 9-08 5B

hermodynamic Constraints on Metal Solubili-es in a Stream Affected by Mine Drainage, onanza, Colorado,
76-03901 9-08 5B

ater-Level Records for Colorado, 1971-75,
76-04394 9-09 7C

he Role of Network Design in the Manage-ent and Control of Streamflow Water Quali-y,
76-04995 9-10 5G

ater-Level Records for the Northern High lains of Colorado, 1972-76,
76-05420 9-11 7C

Rainfall-Runoff Data from Small Watersheds in Colorado, October 1971 through September 1974,
W76-06446 9-13 7C

Water-Level Records for the San Luis Valley of Colorado, 1972-76,
W76-07129 9-14 7C

Radiochemical Monitoring of Water After the Cannikin Event, Amchitka Island, Alaska, May 1974,
W76-07606 9-15 5A

Radiochemical Monitoring of Water After the Cannikin Event, Amchitka Island, Alaska, August 1974, and Chemical Monitoring from July 1972 to June 1974,
W76-07607 9-15 5A

Water Resources Data for Colorado, 1974: Part 2. Water Quality Records,
W76-08047 9-15 7C

Artificial-Recharge Experiments in the Alluvial Aquifer South of Fountain, El Paso County, Colorado,
W76-08571 9-16 4B

Hydrological Problems Associated with Developing Geothermal Energy Systems,
W76-09260 9-17 4B

Appraisal of Water Resources of Northwestern El Paso County, Colorado,
W76-09828 9-18 2E

Operation and Maintenance of a Deep-Well Water-Level Measurement Device, 'The Iron Horse',
W76-09835 9-18 4B

Cenozoic Deposits of Southeastern New Mexico and an Outline of the History of Evaporite Dissolution,
W76-09837 9-18 2J

An Environmental Assessment of Impacts of Coal Development on the Water Sources of the Yampa River Basin, Colorado and Wyoming--Phase-I Work Plan,
W76-10135 9-19 4C

Salt-Load Computations--Colorado River; Cameo, Colorado to Cisco, Utah: Part 1. Data Summary,
W76-10142 9-19 7C

Salt-Load Computations--Colorado River; Cameo, Colorado, to Cisco, Utah: Part 2. Basic Data,
W76-10143 9-19 7C

Bog Stratigraphy, Radiocarbon Dates, and Pinedale to Holocene Glacial History in the Front Range, Colorado,
W76-11071 9-20 2C

Modeling Solute Transport in Ground Water,
W76-11076 9-20 5B

Geophysical Prospecting for Ground Water in Alaska,
W76-11496 9-21 4B

An Environmental Assessment of Impacts of Coal Development on the Water Resources of the Yampa River Basin, Colorado and Wyoming--Phase-II Work Plan,
W76-11500 9-21 5C

Modeling Solute Transport in Ground Water,
W76-11605 9-21 5B

Manual for Estimating Flood Characteristics of Natural-Flow Streams in Colorado,
W76-11672 9-22 2E

Simulated Effects of the Proposed Narrows Reservoir on the Water-Table Aquifer Along the South Platte River, Morgan County, Colorado,
W76-11687 9-22 4B

Map Showing Potential Sources of Gravel and Crushed-Rock Aggregate in the Colorado Springs-Castle Rock Area, Front Range Urban Corridor, Colorado,
W76-12787 9-24 7C

Land-Use Classification Map of the Colorado Springs--Castle Rock Area, Front Range Urban Corridor, Colorado,
W76-12788 9-24 7C

Map Showing Potential Sources of Gravel and Crushed-Rock Aggregate in the Boulder-Fort Collins-Greeley Area, Front Range Urban Corridor, Colorado,
W76-12789 9-24 7C

Land-Use Classification Map of the Boulder-Fort Collins-Greeley Area, Front Range Urban Corridor, Colorado,
W76-12790 9-24 7C

Map Showing Availability of Hydrologic Data Published by the U. S. Environmental Data Service, and by the U.S. Geological Survey and Cooperating Agencies, Greater Denver Area, Front Range Urban Corridor, Colorado.
W76-12794 9-24 7C

Map Showing Lakes in the Greater Denver Area Front Range Urban Corridor, Colorado,
W76-12795 9-24 7C

Map Showing Potential Sources of Gravel and Crushed-Rock Aggregate in the Greater Denver Area, Front Range Urban Corridor, Colorado,
W76-12796 9-24 7C

Lakes in the Colorado Springs--Castle Rock Area, Front Range Urban Corridor, Colorado,
W76-12797 9-24 7C

GEOLOGICAL SURVEY, DENVER, COLO.
COAL RESOURCES BRANCH.
Short-Headed Stream Delta: Model for Pennsylvanian Haymond Formation, West Texas,
W76-04397 9-09 2J

GEOLOGICAL SURVEY, DENVER, COLO.
OFFICE OF ENERGY RESOURCES.
Aqueous Solubility of Petroleum as Applied to its Origin and Primary Migration,
W76-06455 9-13 4B

GEOLOGICAL SURVEY, DORAVILLE, GA.
Cedar Creek at Cedartown, Georgia--Flood Flow Characteristics at Bridge Site of Georgia Avenue Relocation (Supplement to Open-File Report 75-46),
W76-00084 9-01 4A

Water Resources Data for Georgia, Water Year 1975,
W76-06451 9-13 7C

The Measurement of Adenosine Triphosphate in Pure Algal Cultures and Natural Aquatic Samples,
W76-10133 9-19 5A

GEOLOGICAL SURVEY, DORAVILLE, GA.

Estimating Groundwater Evapotranspiration from Streamflow Records,
W76-12285 9-23 2D

GEOLOGICAL SURVEY, EDGEWATER, MD.
Macroscopic Benthic Fauna of Three Tidal Creeks Adjoining the Rhode River, Maryland,
W76-09143 9-17 5B

GEOLOGICAL SURVEY, EDGEWATER, MD. CHESAPEAKE BAY CENTER.
Water Quality in Rhode River at Smithsonian Institution Pier Near Annapolis, Maryland, April 1970 Through December 1973,
W76-03914 9-08 5A

GEOLOGICAL SURVEY, FORT BUCHANAN, PUERTO RICO.
Hydrologic Characteristics of Lagoons at San Juan, Puerto Rico, During a January 1974 Tidal Cycle,
W76-07597 9-15 5B

GEOLOGICAL SURVEY, FORT WORTH, TEX.
Time-Of-Travel of Solutes in the Trinity River Basin, Texas, September 1973 and July-August 1974,
W76-05426 9-11 7C

GEOLOGICAL SURVEY, GARDEN GROVE, CALIF.
Evaluation of Ground-Water Degradation Resulting from Waste Disposal to Alluvium Near Barstow, California,
W76-02480 9-05 5B

Map of the Antelope Valley-East Kern Water Agency Area, California, Showing Ground-Water Subunits and Areas, Location of Wells, and Water-Level Contours for Spring 1975,
W76-03396 9-07 7C

GEOLOGICAL SURVEY, GRAYLING, MICH.
Water Resources of the Huron River Basin, Southeastern Michigan,
W76-05429 9-11 7C

GEOLOGICAL SURVEY, HARRISBURG, PA.
Effects of Air Injection at Prompton Lake, Wayne County, Pennsylvania,
W76-05413 9-11 5G

Limnological Data for the Major Streams in Chester County, Pennsylvania,
W76-05852 9-12 7C

Sediment Characteristics of Five Streams Near Harrisburg, Pennsylvania, Before Highway Construction,
W76-05854 9-12 4C

Springs of Pennsylvania,
W76-07604 9-15 2F

Selected Hydrologic Data, Chester County, Pennsylvania,
W76-08557 9-16 7C

Hydrology and Sedimentation of Bixler Run Basin, Central Pennsylvania,
W76-09830 9-18 2J

Selected Streamflow Experience Graphs for Southwestern Pennsylvania,
W76-10132 9-19 7C

Map Showing Selected Extreme-Streamflow Statistics and Drainage Areas, Greater Pittsburgh Region, Pennsylvania,
W76-11671 9-22 7C

Guide to the Availability of Hydrologic Data, Greater Pittsburgh Region, Pennsylvania.
W76-12282 9-23 7C

Map of Overdip Slopes that Can Affect Landsliding in Armstrong County, Pennsylvania,
W76-12300 9-23 7C

Map of Rock Types in Bedrock of Allegheny County, Pennsylvania,
W76-12791 9-24 7C

Preimpoundment Water Quality of Raystown Branch Juniata River and Six Tributary Streams, South-Central Pennsylvania,
W76-13065 9-24 5A

Technical Manual for Estimating Low-Flow Frequency Characteristics of Streams in the Susquehanna River Basin,
W76-13086 9-24 4A

GEOLOGICAL SURVEY, HELENA, MONT.
A Method for Estimating Magnitude and Frequency of Floods in Montana,
W76-05422 9-11 4A

Water-Resources Investigations of the U.S. Geological Survey in the Northern Great Plains Coal Region of Eastern Montana, 1975-76,
W76-05853 9-12 7C

Annual Peak Discharges from Small Drainage Areas in Montana Through September 1975,
W76-08049 9-15 2E

Ground-Water Levels and Chemical Quality of Ground Water in Lincoln, Montana,
W76-09132 9-17 7C

Results of Phytoplankton Sampling at National Stream Quality Accounting Network Stations in Montana--1975 Water Year,
W76-09146 9-17 5A

Floods of May-July 1975, Along the Continental Divide in Montana,
W76-11675 9-22 2E

GEOLOGICAL SURVEY, HONOLULU, HAWAII.
Ground-Water Resources of American Samoa with Emphasis on the Tafuna-Leone Plain, Tutuila Island,
W76-02950 9-06 4B

Availability of Ground Water for Irrigation on the Kekahamana Coastal Plain, Island of Kauai, Hawaii,
W76-08054 9-15 4B

Probable Effects of Increasing Pumpage From the Schofield Ground-Water Body, Island of Oahu, Hawaii,
W76-11686 9-22 4B

GEOLOGICAL SURVEY, HURON, S. DAK.
Geology and Water Resources of Marshall County, South Dakota--Part 1: Geology and Water Resources,
W76-08558 9-16 4A

Geology and Water Resources of Brown County, South Dakota--Part II: Water Resources,
W76-12290 9-23 4A

Water Resources Data for South Dakota, Water Year 1975.
W76-13073 9-24 7C

GEOLOGICAL SURVEY, IDAHO FALLS, IDAHO.
Hydrologic Data for the Idaho National Engineering Laboratory Site, Idaho, 1971 to 1973,
W76-06447 9-13 5B

GEOLOGICAL SURVEY, INDIANAPOLIS, IND.
Water-Quality Assessment of the Indiana Dunes National Lakeshore, 1973-74,
W76-02147 9-05 2K

Water Resources of the St. Joseph River Basin in Indiana,
W76-04993 9-10 7C

A Technique for Estimating the Time of Travel of Water in Indiana Streams,
W76-09138 9-17 4A

Statistical Summaries of Indiana Streamflow Data,
W76-11409 9-21 7C

Preliminary Evaluation of the Ground-Water Data Network in Indiana,
W76-11684 9-22 7A

Availability of Ground Water Near Carmel, Hamilton and Marion Counties, Indiana,
W76-12287 9-23 6A

GEOLOGICAL SURVEY, INDIANAPOLIS, IND. WATER RESOURCES DIV.
Ground Water Contamination in Indiana,
W76-00276 9-01 5B

GEOLOGICAL SURVEY, IOWA CITY, IOWA.
Water Resources Data for Iowa, Water Year 1975.
W76-13074 9-24 7C

GEOLOGICAL SURVEY, ITHACA, N.Y.
Effects of Land use and Retention Practices on Sediment Yields in the Stony Brook Basin, New Jersey,
W76-05418 9-11 4C

Reassessment of Mercury in Surface Water in the Adirondack Region, New York,
W76-08554 9-16 2K

GEOLOGICAL SURVEY, JACKSON, MISS.
Public and Industrial Water Supplies in Southern Mississippi--1974,
W76-02148 9-05 4A

The Lower Wilcox Aquifer in Mississippi,
W76-06444 9-13 7C

The Miocene Aquifer System in Mississippi,
W76-06445 9-13 7C

Ground-Water Data for Sunflower County, Mississippi,
W76-09140 9-17 7C

Ground-Water Data for Carroll County, Mississippi,
W76-09141 9-17 7C

The Sparta Aquifer System in Mississippi,
W76-11067 9-20 7C

Flood Frequency of Mississippi Streams,
W76-11083 9-20 4A

Water for Industrial and Agricultural Development in Coahoma, De Soto, Panola, Quitman, Tate, and Tunica Counties, Mississippi,
W76-12798 9-24 3E

OLOGICAL SURVEY, LANSING, MICH.

ap Showing Flood of April 1975 at East nsing, Michigan,
76-01188 9-03 2E

ap Showing Flood of April 1975, Lansing, ichigan,
76-01189 9-03 2E

ap Showing Flood of April 1975 at William-n, Michigan,
76-01190 9-03 2E

ap Showing Flood of April 1975 at Meridian wnship, Michigan,
76-01584 9-04 7C

ater Resources of Basins for Minor Streams raining into St. Clair River, Lake St. Clair, etroit River, and Lake Erie, Southeastern ichigan,
76-05427 9-11 7C

outheastern Michigan Water-Resources udy: Ground Water and Geology,
76-06457 9-13 4B

ood Plains of the South Branch Shiawassee ver, Livingston County, Michigan,
76-07113 9-14 2E

ater Resources of the River Raisin Basin, outheastern Michigan,
76-07118 9-14 7C

OLOGICAL SURVEY, LAS VEGAS, NEV.

ater Resources Data Collected in the Devils ole Area, Nevada, 1974-75,
76-02958 9-06 4B

OLOGICAL SURVEY, LAWRENCE, KANS.

ater Resources of Gove, Logan, and Wallace ounties, West-Central Kansas,
76-00093 9-01 7C

uantitative Water Quality with ERTS-1,
76-02052 9-05 5A

hysical and Climatic Characteristics Along ansas Streams,
76-06450 9-13 7C

ater Resources Data for Kansas, Water Year 975,
76-08057 9-15 7C

ariation and Causative Factors of Sediment ields in the Arkansas River Basin, Kansas,
76-09839 9-18 2J

esults of Infiltration Tests Near Scott City, estern Kansas,
76-10136 9-19 2G

ater-Level Changes in Southwestern Kansas, 940-75,
76-12297 9-23 4B

round-Water Resources of Lane and Scott ounties, Western Kansas,
76-12298 9-23 4B

OLOGICAL SURVEY, LINCOLN, NEBR.

istory of Irrigation and Characteristics of treamflow in Northern Nebraska,
76-01589 9-04 4A

ater Resources Data For Nebraska, 1974: art 2. Water Quality Records,
76-02656 9-06 7C

ater Resources Data for Nebraska, 1974: Part . Surface Water Records,
76-04981 9-10 7C

GEOLOGICAL SURVEY, LITTLE ROCK, ARK.

Flow-Duration and Low-Flow Frequency Determinations of Selected Arkansas Streams,
W76-04406 9-09 4A

Report of the Annual Yield of the Arkansas River Basin for the Arkansas River Basin Compact, Arkansas--Oklahoma,
W76-05416 9-11 4A

Discharge Data at Water-Quality Monitoring Stations in Arkansas,
W76-09145 9-17 7C

GEOLOGICAL SURVEY, LOUISVILLE, KY.

Water Resources Data for Kentucky, Water Year 1975.
W76-13075 9-24 7C

GEOLOGICAL SURVEY, LUBBOCK, TEX.

Geochemical Factors Affecting Artificial Groundwater Recharge in the Unsaturated Zone,
W76-03818 9-08 5G

Water Use by Saltcedar as Measured by the Water Budget Method,
W76-08573 9-16 2D

GEOLOGICAL SURVEY, MADISON, WIS.

Water Resources of Wisconsin-Upper Wisconsin River Basin,
W76-00094 9-01 7C

Hydrology of the Lake Wingra Basin, Dane County, Wisconsin.
W76-00667 9-02 2H

A Digital-Computer Model for Estimating Hydrologic Changes in the Aquifer System in Dane County, Wisconsin,
W76-05851 9-12 2F

Measurement and Prediction of Sediment Yields in Wisconsin Streams,
W76-07600 9-15 2J

Low-Flow Characteristics and Mean Annual Discharge of North Branch Manitowoc River at Potter, Wisconsin,
W76-09147 9-17 7C

Recycling Ground Water in Waushara County, Wisconsin: Resource Management for Cold-Water Fish Hatcheries,
W76-11082 9-20 4B

GEOLOGICAL SURVEY, MADISON, WIS. WATER RESOURCES DIV.

The Availability of Ground Water for Irrigation in the Rice Lake-Eau Claire Area, Wisconsin,
W76-09348 9-17 4B

Water Resources Data for Wisconsin. Part 1. Surface Water Records. Part 2. Water Quality Records.
W76-10832 9-20 7C

GEOLOGICAL SURVEY, MENLO PARK, CALIF.

The Determination of Specific Forms of Aluminum in Natural Waters,
W76-00091 9-01 5A

Geologic Map Showing Springs Rich in Carbon Dioxide or Chloride in California,
W76-00092 9-01 7C

Artificial Recharge in the Upper Santa Ana River Area, San Bernardino County, California,
W76-00655 9-02 4B

GEOLOGICAL SURVEY, MENLO PARK, CALIF.

Evaluation of Effects of Land-use Changes on Streamflow,
W76-00657 9-02 4C

Ground-Water Quality in Indian Wells Valley, California,
W76-00658 9-02 5A

Flood-Hazard Study--100-Year Flood Stage for Apple Valley Dry Lake, San Bernardino County, Californai,
W76-00659 9-02 4A

Mercury Distribution in Ancient and Modern Sediment of Northeastern Bering Sea,
W76-01586 9-04 5B

Production of Superheated Steam from Vapor-Dominated Geothermal Reservoirs,
W76-01587 9-04 3E

An Introduction to the Processes, Problems, and Management of Urban Lakes,
W76-01588 9-04 2H

Redwood National Park Studies Data Release Number 1: Redwood Creek, Humboldt County, California, September 1, 1973-April 10, 1974,
W76-02144 9-05 7C

A Numerical Model of Material Transport in Salt-Wedge Estuaries, Part 1. Description of the Model,
W76-02481 9-05 2L

Reactions of Aqueous Aluminum Species at Mineral Surfaces,
W76-02485 9-05 2K

Fossil Fishes from the Plicene or Pleistocene Cache Formation, Lake County, California,
W76-02495 9-05 2H

Effects of Organic Solutes on Chemical Reactions of Aluminum,
W76-02953 9-06 5B

Evaluation of Copper Accumulation in Part of the California Aqueduct,
W76-02957 9-06 5B

Geomorphic Evidence for Late Holocene Tilting in Southern San Mateo County, California,
W76-02960 9-06 2J

The Time Stability of Dissolved Mercury in Water Samples--II. Chemical Stabilization,
W76-03009 9-07 5A

Water Quality,
W76-03395 9-07 5B

A Late Holocene Pollen Record From Pearson's Pond, Weeks Creek Landslide, San Francisco Peninsula, California,
W76-03896 9-08 2I

Rainfall-Runoff Relation for Redwood Creek Above Orick, California,
W76-03903 9-08 2A

Methods for Collection and Analysis of Aquatic Biological and Microbiological Samples,
W76-03915 9-08 5A

Graphic and Tabular Summaries of Water and Suspended-Sediment Discharge During Eight Periods of Synoptic Storm Sampling in the Lower Drainage Basin of Redwood Creek, Humboldt County, California,
W76-04398 9-09 7C

GEOLOGICAL SURVEY, MENLO PARK, CALIF.

Late Pleistocene and Holocene Depositional Trends, Processes, and History of Astoria Deep-Sea Fan, Northeast Pacific,
W76-05845 9-12 2L

Selected Water-Quality Data from Fallen Leaf Lake, El Dorado County, California, June through October 1974,
W76-05848 9-12 7C

Bibliography of Studies on the Density and Other Volumetric Properties for Major Components in Geothermal Waters, 1928-1974,
W76-06454 9-13 4B

Erosion and Sediment Transport in the Owens River Near Bishop, California,
W76-06458 9-13 2J

Processes Controlling the Dissolved Silica Distribution in San Francisco Bay,
W76-07107 9-14 5C

Water Resources Data for California, 1974: Part 1. Surface Water Records--Volume 1.
W76-07121 9-14 7C

Earthquake: Correlation Between Pipeline Damage and Geologic Environment,
W76-07124 9-14 8A

Solute Transport and Modeling of Water Quality in a Small Stream,
W76-08058 9-15 5B

Water Resources Data for California, 1974: Part 1. Surface Water Records--Volume 2: Northern Great Basin and Central Valley.
W76-08556 9-16 7C

The Placer River Silt--An Intertidal Deposit Caused by the 1964 Alaska Earthquake,
W76-08560 9-16 2J

Distribution and Movement of Zinc and Other Heavy Metals in South San Francisco Bay, California,
W76-08561 9-16 5B

Water Quality in the Mad River Basin, Humboldt and Trinity Counties, California,
W76-08562 9-16 5A

Amino Acids and Gases in Some Springs and an Oil Field in California,
W76-08568 9-16 4B

Sediment Transport, Turbidity, Channel Configuration, and Possible Effects of Impoundment of the Mad River, Humboldt County, California,
W76-09136 9-17 2J

Proposed Revision to the Modified Einstein Method of Computing Total Sediment Discharge,
W76-09842 9-18 2J

Movement of Spilled Oil in San Francisco Bay as Predicted by Estuarine Nontidal Drift,
W76-10385 9-19 5B

An Empirical Na-K-Ca Geothermometer for Natural Waters,
W76-10598 9-20 2K

Water-Quality Investigation, Eel River, California,
W76-11069 9-20 5A

Geohydrology of the Anza-Terwilliger Area, Riverside County, California,
W76-11074 9-20 4B

Variation in Concentration of Selected Water-Quality Constituents in the Sacramento River at Bend Bridge, California,
W76-11078 9-20 5A

A Numerical Model of the Time-Dependent, Three-Dimensional Structure of Circulation in Large Lakes,
W76-11422 9-21 2H

Flood Hydrology of Butte Basin 1973 and 1974 Water Years, Sacramento Valley, California--A Progress Report,
W76-11670 9-22 2E

Flow from Small Watersheds Adjacent to the Study Reach of the Gila River Phreatophyte Project, Arizona,
W76-11677 9-22 2E

Sediment Discharge from Highway Cut-Slopes in the Lake Tahoe Basin, California, 1972-74,
W76-12279 9-23 4C

Ground-Water Resources in the Lompoc Area Santa Barbara County, California,
W76-12288 9-23 2F

Chemical Characteristics of the Major Thermal Springs of Montana,
W76-12293 9-23 2K

Geochemical Controls on Lead Concentrations in Stream Water and Sediments,
W76-12800 9-24 5A

Selected Effects of Suburban Development on Runoff in South-Coastal, California.
W76-12810 9-24 4C

Occurrence of Arsenic in the Dry Creek Basin, Sonoma County, California,
W76-13068 9-24 5A

Two-Dimensional Steady-State Dispersion in a Saturated Porous Medium,
W76-13071 9-24 2F

Sublacustrine Fan Morphology in Lake Superior,
W76-13079 9-24 5B

GEOLOGICAL SURVEY, MENLO PARK, CALIF. ENGINEERING GEOLOGY BRANCH.

Application of Ground-Water Flow Theory to a Subsurface Oil Spill,
W76-09350 9-17 2L

GEOLOGICAL SURVEY, MENLO PARK, CALIF. WATER RESOURCES DIV.

The Time Stability of Dissolved Mercury in Water Samples-I. Literature Review,
W76-08767 9-17 5A

GEOLOGICAL SURVEY, METAIRIE, LA.

Responsibilities of Offshore Drilling Regulations,
W76-08918 9-17 5G

GEOLOGICAL SURVEY, MIAMI, FLA.

Water Management Model in Florida from ERTS-1 Data,
W76-00096 9-01 7B

Discovery of the Gastropod Snail Melanoides (Thiara) Tuberculata (Muller) in Florida,
W76-00660 9-02 5B

Water and the South Florida Environment,
W76-03402 9-07 5C

Occurrence of Chlorinated Hydrocarbon Insecticide, Southern Florida--1968-72,
W76-03898 9-08 5B

GEOLOGICAL SURVEY, MINEOLA, N. Y.

Hydrogeology Along the Proposed Barrie Recharge-Well Alinement in Southern Nassa County, Long Island, New York,
W76-01184 9-03 4

Analog-Model Analysis of Hydrologic Effec of Sewerage in Southeast Nassau ar Southwest Suffolk Counties, Long Island, Ne York,
W76-02146 9-05 5

The Water Table on Long Island, New York, March 1974,
W76-03911 9-08 4

Stratigraphic and Hydrologic Relationship the Piney Point Aquifer and the Alloway Cl Member of the Kirkwood Formation in Ne Jersey,
W76-05412 9-11 2

Hydrogeochemical Data from Investigation Water Quality in Sewered and Unsewere Areas, Southern Nassau County, Long Islan New York,
W76-05858 9-12 7

GEOLOGICAL SURVEY, MORGANTOWN, W. VA.

Records of Wells, Springs, and Streams in th Potomac River Basin, West Virginia,
W76-08055 9-15 4

GEOLOGICAL SURVEY, NASHVILLE, TENN.

Beneath the Tenn-Tom,
W76-11415 9-21 4

GEOLOGICAL SURVEY OF ALABAMA, UNIVERSITY.

Hydrology of Limestone Terranes, Progress Knowledge About Hydrology of Carbonat Terranes,
W76-12813 9-24 2

GEOLOGICAL SURVEY OF AUSTRALIA, MELBOURNE. MINES DEPT.

Procedures and Equipment for Pumping an Freeflowing Tests of Water Wells,
W76-00406 9-01 8

GEOLOGICAL SURVEY OF CANADA, OTTAWA (ONTARIO).

Longitudinal Dispersion in Natural Channels,
W76-05160 9-11 5

Some Comments on Interferences by CU(II Ions and AG(I) Ions on the Wet Reduction Flameless Atomic Absorption Determination o Mercury,
W76-09039 9-17 5

The Formation and Detection of Metal Disper sion Halos in Organic Lake Sediments,
W76-09129 9-17 2

GEOLOGICAL SURVEY OF CANADA OTTAWA, (ONTARIO). RESOURCE GEOPHYSICS AND GEOCHEMISTRY DIV.

Metal Contents of Lake Sediment Cores fron Established Mining Areas: An Interface of Ex ploration and Environmental Geochemistry,
W76-04291 9-09 5

GEOLOGICAL SURVEY OF PUERTO RICO, SAN JUAN.

Floods in Eastern Lajas Valley and the Lowe Rio Loco Basin, Southwestern Puerto Rico,
W76-01182 9-03 2

Floods in the Carolina-Rio Grande Area Northeastern Puerto Rico,
W76-01185 9-03 2

hemical Composition of Rainfall at Selected ites in Puerto Rico,
'76-02135 9-05 2K

loods in the Fajardo-Luquillo Area, ortheastern Puerto Rico,
'76-02150 9-05 7C

OLOGICAL SURVEY OF SWEDEN, OCKHOLM.
he Rate of Spread of Fuel Oil No. 1,
'76-06677 9-13 5B

OLOGICAL SURVEY, OKLAHOMA CITY, LA.
tatistical Summaries of Streamflow Records, klahoma, Through 1974,
'76-03904 9-08 7C

echniques for Estimating Flood Depths for klahoma Streams,
'76-11075 9-20 4A

Ground-Water Records for Northeastern klahoma: Part 1--Records of Wells, Test-loles, and Springs,
'76-11412 9-21 7C

Geohydrology of the Oklahoma Panhandle, Beaver, Cimarron, and Texas Counties,
'76-13081 9-24 4B

OLOGICAL SURVEY, PARKVILLE, MD.
Harford County Ground-Water Information: Well Records, Chemical Quality Data, and Pumpage,
'76-03912 9-08 7C

Cockeysville Quadrangle: Geology, Hydrology nd Mineral Resources,
'76-04407 9-09 7C

Storm-Period Variables Affecting Sediment Transport from Urban Construction Areas,
'76-09840 9-18 2J

Urban-Area Sediment Yield--Effects of Con-truction-Site Conditions and Sediment-Control Methods,
'76-09841 9-18 4D

Ten Years of Experience with Automatic Pumping-Sediment Samplers,
'76-09843 9-18 7B

Preliminary Analysis of Geohydrologic Data rom Test Wells Drilled Near Chalk Point, Prince Georges County, Maryland,
'76-12289 9-23 4B

OLOGICAL SURVEY, PHOENIX, ARIZ.
Map Showing Ground-Water Conditions in the Waterman Wash Area, Maricopa and Pinal Counties, Arizona--1975,
'76-03399 9-07 7C

OLOGICAL SURVEY, PORTLAND, OREG.
Methods and Data Requirements for River-Quality Assessment,
'76-01334 9-03 5A

Lakes of Oregon: Volume 3. Hood River, Mult-nomah, Washington, and Yamhill Counties,
'76-01579 9-04 2H

Ground Water in Selected Areas in the Klamath Basin, Oregon,
'76-01590 9-04 2F

Hydrology of Malheur Lake, Harney County, Southeastern Oregon,
'76-03906 9-08 4A

Ground-Water Resources of Waukesha County, Wisconsin,
W76-04408 9-09 2F

Planning Implications of Dissolved Oxygen Depletion in the Willamette River, Oregon,
W76-10332 9-19 5G

GEOLOGICAL SURVEY, PORTLAND, OREG. WATER RESOURCES DIV.
Formulation and Use of Practical Models for River Quality Assessment,
W76-01006 9-03 5G

Formulation and use of Practical Models for River Quality Assessment,
W76-06209 9-13 5G

GEOLOGICAL SURVEY, RALEIGH, N.C.
Environmental Hazards of Large Scale Water Developments,
W76-01348 9-03 6G

Ground-Water Resources of the Cape Hatteras National Seashore, North Carolina,
W76-02149 9-05 7C

Annual Maximum Stages and Discharges of North Carolina Streams,
W76-05423 9-11 7C

Sediment Characteristics of Streams in the Eastern Piedmont and Western Coastal Plain Regions of North Carolina,
W76-05849 9-12 2J

Water Resources Data for North Carolina, Water Year 1975.
W76-13067 9-24 7C

Thermal Loading of Hyco Lake, North Carolina-- the Effect of Heated Water on Temperature and Evaporation, 1966-74,
W76-13078 9-24 5C

GEOLOGICAL SURVEY, RALEIGH, N. C. WATER RESOURCES DIV.
Design of Ground Water Level Observation-Well Programs,
W76-05451 9-11 4B

GEOLOGICAL SURVEY, RESTON, VA.
Simulation of Water-and Vapor-Dominated Hydrothermal Reservoirs,
W76-00087 9-01 2A

Loop-rating Curves for Various Unsteady Flows,
W76-00088 9-01 8B

Stress Determination by Hydraulic Fracturing in Subsurface Waste Injection,
W76-00089 9-01 5E

Index to U. S. Geological Survey Computer Files Containing Daily Values for Water Parameters to September 30, 1971, Northeastern Region,
W76-00097 9-01 7C

Ground-water Levels in the United States, 1968-72: Northeastern States.
W76-00098 9-01 7C

Quality of Surface Waters of the United States, 1969: Parts 9 and 10. Colorado River Basin and the Great Basin.
W76-00099 9-01 7C

Surface Water Supply of the United States, 1966-70: Part 2. South Atlantic Slope and Eastern Gulf of Mexico Basins--Volume 2. Basins from Ogeechee River to Carrabelle River.
W76-00100 9-01 7C

Surface Water Supply of the United States, 1966-70: Part 12. Pacific Slope Basins in Washington--Volume 2. Upper Columbia River Basin.
W76-00101 9-01 7C

The Surface Water Supply of the United States, 1966-70: Part 4. St. Lawrence River Basin--Volume 1. Basins of Streams Tributary to Lakes Superior, Michigan, and Huron,.
W76-00651 9-02 7C

Ground-Water Levels in the United States, 1969-73: South-Eastern States.
W76-00652 9-02 7C

Summary Appraisals of the Nation's Ground-Water Resources-Upper Colorado Region,
W76-00662 9-02 2F

A Hydrologic Assessment of the September 14, 1974, Flood in Eldorado Canyon, Nevada.
W76-00663 9-02 2E

Distribution of Radionuclides in the Columbia River Streambed, Hanford Reservation to Longview, Washington,
W76-00664 9-02 5B

Hydrologic Unit Map--1974, State of North Carolina.
W76-00670 9-02 7C

Hydrologic Unit Map--1974, State of Florida.
W76-00671 9-02 7C

Quality of Surface Waters of the United States, 1969: Part 2. South Atlantic Slope and Eastern Gulf of Mexico Basins.
W76-01176 9-03 2K

Surface Supply of the United States, 1966-70: Part 3. Ohio River Basin--Volume 3. Ohio River Basin from Louisville, Kentucky, to Wabash River.
W76-01177 9-03 2E

Surface Water Supply of the United States, 1966-70: Part 1.' North Atlantic Slope Basins--Volume 1. Basins from Maine to Connecticut.
W76-01178 9-03 2E

Galerkin Finite-Element Simulation of a Geothermal Reservoir,
W76-01179 9-03 1A

Optimizing Information Transfer in a Stream-Gaging Network,
W76-01187 9-03 7A

Generalized Geologic Framework of the National Reactor Testing Station, Idaho,
W76-01191 9-03 8E

Land Subsidence Due to Ground-Water Withdrawal in the Los Banos-Kettleman City Area, California: Part 1.Changes in the Hydrologic Environment Conductive to Subsidence,
W76-01192 9-03 4B

Solute Balance at Abert and Summer Lakes, South-Central Oregon,
W76-01570 9-04 2H

Hydrologic Unit Map--1974, State of Wisconsin.
W76-01571 9-04 7C

Hydrologic Unit Map--1974, State of Hawaii.
W76-01572 9-04 7C

Hydrologic Unit Map--1974, State of Georgia.
W76-01573 9-04 7C

GEOLOGICAL SURVEY, RESTON, VA.

Hydrologic Unit Map--1974, State of Illinois.
W76-01574 9-04 7C

Summary of Floods in the United States During 1969,
W76-01576 9-04 2E

Quality of Surface Waters of the United States, 1969: Part 3. Ohio River Basin.
W76-01577 9-04 2K

General Model to Simulate Flow in Branched Estuaries,
W76-01580 9-04 2L

Stratigraphy of Atlantic Coastal Margin of United States North of Cape Hatteras--Brief Survey,
W76-01583 9-04 2L

Quality of Surface Waters of the United States, 1970: Part 3. Ohio River Basin.
W76-02132 9-05 7C

Surface Water Supply of the United States, 1966-70: Part 8. Western Gulf of Mexico Basins--Volume 1. Basins from Mermentau River to Colorado River.
W76-02133 9-05 7C

Hydrogeologic and Hydrochemical Framework, South-Central Great Basin, Nevada-California, with Special Reference to the Nevada Test Site,
W76-02140 9-05 5B

Surface Water Supply of the United States, 1966-70: Part 2. South Atlantic Slope and Eastern Gulf of Mexico Basins--Volume 1. Basins from James River to Savannah River.
W76-02486 9-05 7C

Hydrologic Unit Map--1974, State of Idaho.
W76-02490 9-05 7C

Hydrologic Unit Map--1974, State of Nevada.
W76-02491 9-05 7C

Water Temperature-Influential Factors, Field Measurement, and Data Presentation,
W76-02494 9-05 2K

On the Value of Information to Flood Frequency Analysis,
W76-02952 9-06 4A

Low Streamflow Characteristics,
W76-02955 9-06 2E

Documentation of Finite-Difference Model for Simulation of Three-Dimensional Ground-Water Flow,
W76-02962 9-06 2F

Dynamics of Suspended Sediment Plumes in Lake Ontario,
W76-02963 9-06 2J

Techniques for Water demand Analysis and Forecasting: Puerto Rico, a Case Study,
W76-03407 9-07 6D

Regional Skew in Search of a Parent,
W76-03899 9-08 2E

Hydrologic Unit Map--1974, State of Arizona.
W76-03909 9-08 7C

Hydrologic Unit Map--1974, State of California.
W76-03910 9-08 7C

Quality of Surface Waters of the United States, 1970: Parts 4 and 5. St. Lawrence River Basin, and Hudson Bay and Upper Mississippi River Basins.
W76-04392 9-09 7C

Quality of Surface Waters of the United States, 1969: Part 7. Lower Mississippi River Basin.
W76-04393 9-09 7C

Mineral and Water Resources of South Dakota.
W76-04400 9-09 4A

United States Geological Survey's Hydrogeological Research Programs and Plans Related to Disposal of Radioactive Waste into Geologic Formations,
W76-04411 9-09 5B

Water-Resources Investigations in Minnesota, 1976.
W76-04990 9-10 7C

Hydrologic Unit Map--1974, State of Utah.
W76-04992 9-10 7C

Floods Near Chicago Heights, Illinois.
W76-04994 9-10 7C

Hydrologic Semantics,
W76-05414 9-11 2A

Ground Water Development and Potential in Wadis Khulays and Fatimah, Saudi Arabia,
W76-05419 9-11 4B

Hydrologic Unit Map--1974, Caribbean Region.
W76-05430 9-11 7C

Remote Sensing,
W76-05431 9-11 7B

Equations for Resistance to Flow and Sediment Transport in Alluvial Channels,
W76-05844 9-12 2J

Application of Multi-Regional Planning Models to the Scheduling of Large-Scale Water Resource Systems Development,
W76-05846 9-12 6A

Application of Multi-Regional Planning Models to the Scheduling of Large-Scale Water Resource Systems Development,
W76-06425 9-13 6A

Hydrologic Evaluation of Salinity Control and Reclamation Projects in the Indus Plain, Pakistan--A Summary,
W76-06453 9-13 5G

Geologic and Water-Supply Reports and Maps--Wyoming, July 1975,
W76-06456 9-13 10C

Application of Geochemical Principles, Isotopic Methodology, and Artificial Tracers to Karst Hydrology,
W76-07112 9-14 2F

Surface Water Supply of the United States, 1966-70: Part 5. Hudson Bay and Upper Mississippi River Basins--Volume 1. Hudson Bay Basin.
W76-07122 9-14 7C

Karst and Paleohydrology of Carbonate Rock Terranes in Semiarid and Arid Regions with a Comparison to Humid Karst of Alabama,
W76-08044 9-15 2F

Quality of Surface Waters of the United State
1970: Parts 9 and 10. Colorado River Basin an
the Great Basin.
W76-08045 9-15 7

Geohydrologic Reconnaissance of the Imperi
Valley, California,
W76-08052 9-15 4

MIX2: A Computer Program for Modelin
Chemical Reactions in Natural Waters,
W76-08062 9-15 7

Interstation Correlation of Peak-Flow Est
mates,
W76-08555 9-16 4

Design of Ground-Water Level Observatio
Network.
W76-08563 9-16 4

Hydrologic Unit Map--1974, State of Mi
nesota.
W76-09131 9-17 7

Statistics of Data Transfer,
W76-09133 9-17 4

Summary Appraisals of the Nation's Groun
Water Resources--California Region,
W76-09139 9-17 4

A Guide to State Programs for the Reclamatio
of Surface Mined Areas,
W76-09142 9-17 5

Mineral Resource Management of the Out
Continental Shelf.
W76-09306 9-17 6

Regression Analysis and Parameter Identifica
tion,
W76-09824 9-18 7

Reconnaissance Map Showing Relativ
Amounts of Soil and Bedrock in the Mour
tainous Part of the Morrison-Evergree
Quadrangles and Adjoining Areas to the We
in Jefferson County, Colorado,
W76-09825 9-18 7

Hydrologic Unit Map--1974, State of Alaska,
W76-09826 9-18 7

Hydrologic Unit Map--1974, State of Oregon,
W76-09827 9-18 7

A Primer on Floodplain Dynamics,
W76-09831 9-18 2

Geochemical and Isotopic Analyses of Water
Associated with the Edwards Limeston
Aquifer, Central Texas,
W76-09836 9-18 2

National Conference of District Chiefs, Al
buquerque, New Mexico, September 28-Oc
tober 3, 1975--Proceedings,
W76-09838 9-18 2

Principles and Measuring Techniques of Turbu
lence Characteristics in Open-Channel Flows,
W76-10134 9-19 8

National Water Data Storage and Retrieva
System: Instructions for Preparation and Sub
mission of Ground-Water Data,
W76-10148 9-19 10

Hydrologic Unit Map--1974, State of Washing
ton.
W76-10150 9-19 7

Regulation and Supervision of Outer Continental Shelf Operations on the Pacific Coast,
W76-11005 9-20 5G

Gulf Coast Lease Management Inspection Program,
W76-11006 9-20 5G

Groundwater,
W76-11066 9-20 2F

Greater Pittsburgh Regional Studies, Reports and Maps, April 1976.
W76-11072 9-20 7C

Application of Simple Dam Break Routing Model,
W76-11084 9-20 8B

The National Stream Quality Accounting Network,
W76-11419 9-21 5A

The Volumetric Properties of H20--A Graphical Portrayal,
W76-11420 9-21 1A

Decision Theory and Its Application to Network Design,
W76-11498 9-21 7A

Information Transfer for Stream Discharge,
W76-11499 9-21 7A

Surface Water Supply of the United States, 1966-70: Part II. Pacific Slope Basins in California--Volume I. Basins from Tijuana River to Santa Maria River,
W76-11669 9-22 7C

A Land Use and Land Cover Classification System for use with Remote Sensor Data,
W76-11679 9-22 4A

Soil Slips, Debris Flows, and Rainstorms in the Santa Monica Mountains and Vicinity, Southern California,
W76-11680 9-22 2E

A Stochastic Model for Predicting the Probability Distribution of the Dissolved-Oxygen Deficit in Streams,
W76-12276 9-23 5B

Quality of Surface Waters of the United States, 1970: Parts 12-16. North Pacific Slope Basins, Alaska, and Hawaii and Other Pacific Areas.
W76-12284 9-23 7C

A Note on Computing Finite Difference Interblock Transmissivities,
W76-12292 9-23 2F

Hydrologic Unit Map--1974, State of Montana.
W76-12793 9-24 7C

A Summary of the Ground-Water Hydrology of the Area Between the Las Vegas Valley and the Amargosa Desert, Nevada, With Special Reference to the Effects of Possible New Withdrawals of Ground Water,
W76-12807 9-24 4B

Compiling Bathymetry for Flow Simulation Models,
W76-13064 9-24 7C

Surface Water Supply of the United States, 1966-70: Part 5. Hudson Bay and Upper Mississippi River Basins--Volume 2. Upper Mississippi River Basin Above Keokuk, Iowa.
W76-13076 9-24 7C

Index to National Topographic Maps: 1:250,000-Scale Series.
W76-13077 9-24 7C

A Simplified Slope-Area Method for Estimating Flood Discharges in Natural Channels,
W76-13083 9-24 4A

Finite-Difference Model for Aquifer Simulation in Two Dimensions with Results of Numerical Experiments,
W76-13085 9-24 2F

The Coastal Plains Regional Commission--U.S. Geological Survey. Aeromagnetic-Aeroradioactivity Survey,
W76-13099 9-24 7B

GEOLOGICAL SURVEY, RESTON, VA. ; AND GEOLOGICAL SURVEY, BAY SAINT LOUIS, MISS.
The Potential Impact of Satellite Data-Relay Systems on the Operation of Hydrologic Data Programs,
W76-11497 9-21 7B

GEOLOGICAL SURVEY, RESTON, VA; AND NATIONAL WEATHER SERVICE, SILVER SPRING, MD.
Hurricane Agnes Rainfall and Floods, June-July 1972,
W76-03397 9-07 2E

GEOLOGICAL SURVEY, RESTON, VA. WATER RESOURCES DIV.
Design of Nationwide Water-Quality-Monitoring Networks,
W76-09209 9-17 5A

Cost Functions for Additional Ground Water Development,
W76-10194 9-19 4B

Design of Nationwide Water-Quality Monitoring Networks,
W76-10643 9-20 5A

GEOLOGICAL SURVEY, ROLLA, MO.
Water Resources of West-Central Missouri,
W76-03401 9-07 7C

GEOLOGICAL SURVEY, SACRAMENTO.
Hydraulic Effects of Changes in Bottom-Land Vegetation on Three Major Floods, Gila River in Southeastern Arizona,
W76-08050 9-15 4C

GEOLOGICAL SURVEY, SACRAMENTO, CALIF.
Summary Appraisals of the Nation's Ground-Water Resources--Upper Mississippi Region,
W76-02141 9-05 6B

Land Subsidence Due to Ground-Water Withdrawal, Arvin-Maricopa Area, California,
W76-02142 9-05 4B

Limnological Data for Donner Lake, California, May 1973 Through December 1973,
W76-02487 9-05 2H

Ground-Water Reconnaissance in the Fresno Northeast Area, Fresno County, California,
W76-02493 9-05 4B

New Tritium Data on Movement of Groundwater in Western Fresno County, California,
W76-03388 9-07 5B

Land Subsidence and Aquifer-System Compaction in the San Jacinto Valley, Riverside County, California--A Progress Report,
W76-05847 9-12 2F

GEOLOGICAL SURVEY, SALT LAKE CITY, UTAH.
Chemical Quality and Temperature of Water in Flaming Gorge Reservoir, Wyoming and Utah, and the Effect on the Reservoir on the Green River,
W76-05417 9-11 2H

Water-Resources Investigations of the U.S. Geological Survey in Selected Coal-Energy Areas of Utah,
W76-09148 9-17 4B

Report of Water Levels in Selected Observation Wells in Utah--April 1976,
W76-09832 9-18 4B

Ground-Water Levels in Selected Basins in the State of Utah from February-March 1974 to February-March 1975,
W76-11678 9-22 7C

Seepage Study of the Rocky Point Canal and the Grey Mountain-Pleasant Valley Canal Systems, Duchesne County, Utah,
W76-11682 9-22 4A

Developing A State Water Plan: Ground-Water Conditions in Utah, Spring of 1976,
W76-12296 9-23 4B

GEOLOGICAL SURVEY, ST. PAUL, MINN.
Small-Stream Flood Investigations in Minnesota, October 1958 to September 1973,
W76-00085 9-01 7C

Ground Water for Irrigation in the Viking Basin, West-Central Minnesota,
W76-02949 9-06 4B

Predicted Effects of Pumping on Lowering the Water Table in the Twin, Crystal, Ryan Lakes-Highway 100 Area, Hennepin Country, Minnesota,
W76-02965 9-06 4C

Some Limnological Aspects of 20 Selected Lakes in Eagan and Apple Valley, Minnesota,
W76-02966 9-06 2H

Water Resources of the Mississippi and Sauk Rivers Watershed, Central Minnesota,
W76-05428 9-11 7C

Water Resources of the Lake of the Woods Watershed, North-Central Minnesota,
W76-07115 9-14 7C

Water Resources of the Cedar River Watershed, Southeastern Minnesota,
W76-07117 9-14 7C

Artificial Recharge Through a Well in Fissured Carbonate Rock, West St. Paul, Minnesota,
W76-08046 9-15 4B

Digital Models of a Glacial Outwash Aquifer in the Pearl-Sallie Lakes Area, West-Central Minnesota,
W76-13082 9-24 2F

GEOLOGICAL SURVEY, TACOMA, WASH.
Tests of Estimates of Preferred Spawning and Rearing Discharges for Trout in Selected Streams in Wasington,
W76-01575 9-04 8I

A Numerical Model of Material Transport in Salt-Wedge Estuaries, Part II. Model Computation of Salinity and Salt-Wedge Dissolved Oxygen in the Duwamish River Estuary, King County, Washington,
W76-02482 9-05 2L

GEOLOGICAL SURVEY, TACOMA, WASH.

Solid-Waste Disposal Sites in Relation to Water Resources in the Seattle-Tacoma Urban Complex and Vicinity, Washington,
W76-02489 9-05 7C

Geophysical Studies of Floating Ice by Remote Sensing,
W76-02954 9-06 2C

Application of Remote-Sensing Techniques to the Study of Seasonal Snow Cover,
W76-03389 9-07 2C

Glacier Applications of ERTS Imagery,
W76-03390 9-07 2C

New Ways to Monitor the Mass and Areal Extent of Snow Cover,
W76-03391 9-07 2C

Applications of ERTS Imagery to Snow and Glacier Hydrology,
W76-03902 9-08 2C

Estimation of Stream Discharges Preferred by Steelhead Trout for Spawning and Rearing in Western Washington,
W76-04984 9-10 4A

Table of Data on Quality of Surface Waters and of Snowpack Draining to Baker River from Mount Baker, Washington,
W76-04988 9-10 7C

Flood Profiles and Inundated Areas Along the Deschutes River, Washington,
W76-05415 9-11 2E

Table of Data on Water Quality of Baker Lake near Mount Baker, Washington,
W76-05857 9-12 7C

Preliminary Hydrography and Historic Terminal Changes of Columbia Glacier, Alaska,
W76-06449 9-13 7C

A Comparison of Glacier Mass Balance by Glaciological, Hydrological and Mapping Methods, South Cascade Glacier, Washington,
W76-07125 9-14 2C

Glaciology,
W76-07130 9-14 2C

Reconnaissance Data on Lakes in Washington--Volume 2. King and Snohomish Counties,
W76-07591 9-15 2H

Reconnaissance Data on Lakes in Washington--Volume 1. Clallam, Island, Jefferson, San Juan, Skagit, and Whatcom Counties,
W76-07592 9-15 2H

Digital Model of the Gravel Aquifer, Walla Walla River Basin, Washington and Oregon,
W76-07593 9-15 2F

Reconnaissance of the Water Resources of the Upper Klickitat River Basin, Yakima Indian Reservation, Washington,
W76-07594 9-15 4A

Evaluation of Ground-Water Contamination from Cleaning Explosive-Projectile Casings at the Bangor Annex, Kitsap County, Washington, Phase II,
W76-08048 9-15 5B

Hydrology of the North Cascades Region, Washington: 1. Runoff, Precipitation, and Storage Characteristics,
W76-08059 9-15 2A

Hydrology of the North Cascades Region, Washington: 2. A Proposed Hydrometeorological Streamflow Prediction Method,
W76-08060 9-15 2A

Data on Selected Lakes in Washington, Part 3,
W76-08564 9-16 2H

Reconnaissance Data on Lakes in Washington--Volume 3. Kitsap, Mason, and Pierce Counties,
W76-08565 9-16 2H

Reconnaissance Data on Lakes in Washington--Volume 4. Clark, Cowlitz, Grays Harbor, Lewis, Pacific, Skamania, and Thurston Counties,
W76-08566 9-16 2H

Reconnaissance Data on Lakes in Washington--Volume 5. Chelan, Ferry, Kittitas, Klickitat, Okanogan, and Yakima Counties,
W76-08567 9-16 2H

Reconnaissance Data on Lakes in Washington--Volume 6. Adams, Benton, Douglas, Franklin, Grant, Lincoln, Walla Walla, and Whitman Counties,
W76-10138 9-19 7C

Reconnaissance Data on Lakes in Washington--Volume 7. Pend Oreille, Spokane, and Stevens Counties,
W76-10139 9-19 7C

The Tilted Forest: Glaciological-Geologic Implications of Vegetated Neoglacial Ice at Lituya Bay, Alaska,
W76-11423 9-21 2C

On the Calculation of Surface Shear Stress Using the Profile Method,
W76-12809 9-24 2C

Water Quality Model of a Salt-Wedge Estuary,
W76-13063 9-24 5B

GEOLOGICAL SURVEY, TALLAHASEE, FLA.

Progress Report on the Water Resources Investigation of Martin County, Florida,
W76-06459 9-13 4B

GEOLOGICAL SURVEY, TALLAHASSEE, FLA.

Evaluation of a Proposed Connector Well, Northeastern Desoto County, Florida,
W76-00095 9-01 4B

Satellite Relay and Processing of Hydrologic Data in South Florida,
W76-01578 9-04 7B

Water Resources Information Needs for the Northwest Florida Water Management District.
W76-02138 9-05 4A

Summary of Hydrologic Conditions in Collier County, Florida, 1974,
W76-04403 9-09 4A

Effects of a Landfill Operation on Ground-Water Quality in North Broward County, Florida,
W76-04404 9-09 5B

Potentiometric Surface and Areas of Artesian Flow of the Floridian Aquifer in Florida, May 1974,
W76-04405 9-09 7C

Hydrologic Data for 1974, Broward County, Florida,
W76-04979 9-10 7C

Relation of Water Level and Fish Availability to Wood Stork Reproduction in the Southern Everglades, Florida,
W76-05850 9-12 2

Floridan Aquifer in Northeast Florida--Three Maps--Hardness of Water, Chloride Concentration, and Potentiometric Surface, May 1974,
W76-05859 9-12 7C

Ground-Water Quality in Selected Areas Serviced by Septic Tanks, Dade County, Florida,
W76-06442 9-13 5E

Flood-Prone Areas of Gadsden County, Florida,
W76-06443 9-13 7C

Nutrient Concentrations of Surface Waters in Southern Florida, September 1970 to April 1975,
W76-07126 9-14 5A

Perspective on Use of Fresh Water for Cooling Systems of Thermoelectric Powerplants in Florida,
W76-07596 9-15 3E

Aquifer Tests in the Summit Reach of the Proposed Cross-Florida Barge Canal Near Ocala, Florida,
W76-07599 9-15 2E

Geohydrology of the Lake Area at Kathryn Abbey Hanna Park, Jacksonville, Florida,
W76-07602 9-15 2E

Chemical Characteristics of the Lower Kissimmee River, Florida--with Emphasis on Nitrogen and Phosphorus,
W76-07603 9-15 5A

Hydrology of the Three Sinkhole Basins in Southwestern Seminole County, Florida,
W76-08572 9-16 4A

Hydrologic Environmental Effects of Sprayed Sewage Effluent, Tallahassee, Florida,
W76-09134 9-17 5E

Summary of Hydrologic Data Collected During 1974 in Dade County Florida,
W76-09135 9-17 7C

Water Resources of Walton County, Florida,
W76-09149 9-17 4A

Effects of a Landfill on Ground-water Quality,
W76-10137 9-19 5E

Construction and Testing of Two Waste-Injection Monitor Wells in Northwest Florida,
W76-11070 9-20 5E

Hydrologic Effects of Storms of June 24-28, 1974 in Lee and Collier Counties, Florida,
W76-11077 9-20 4A

Water-Quality Data for Canals in Eastern Broward County, Florida, 1969-1974,
W76-11081 9-20 7C

Hydrologic Records for Lake County, Florida, 1973-74,
W76-11414 9-21 7C

Programmable Calculators: Modern Instruments for Analyzing Hydrologic Data,
W76-11416 9-21 7B

Analysis of Selected Benthic Communities in the Florida Everglades with Reference to their Physical and Chemical Environment,
W76-11418 9-21 5A

Appraisal of the Water Resources of Charlotte County, Florida,
W76-11676 9-22 4C

Ground-Water Quality at the Site of a Proposed Deep-Well Injection System for Treated Wastewater, West Palm Beach, Florida,
W76-11681 9-22 5A

The Shallow Aquifer--A Prime Freshwater Resource in Eastern Palm Beach County, Florida,
W76-12278 9-23 2F

Proposed Cross-Florida Barge Canal: Water-Quality Aspects, with a Section on Waste-Assimilative Capacity,
W76-12283 9-23 5G

Fluctuations of Ground-Water Levels in Lee County, Florida, in 1974,
W76-12801 9-24 4B

EOLOGICAL SURVEY, TRENTON, N.J.
Flood of July 21, 1975 in Merger County, New Jersey,
W76-04986 9-10 2E

Geology and Ground-Water Resources of Union County, New Jersey,
W76-13072 9-24 4B

EOLOGICAL SURVEY, TUCSON, ARIZ.
Relation of the Consumptive Use Coefficient to the Description of Vegetation,
W76-05843 9-12 2D

Saltcedar (Tamarix Chinensis) Seed Production, Seedling Establishment, and Response to Inundation,
W76-06590 9-13 3B

Maps Showing Ground-Water Conditions in the Ranegras Plain and Butler Valley Areas, Yuma County, Arizona--1975,
W76-10149 9-19 7C

Maps Showing Ground-Water Conditions in the Lower Hassayampa Area, Maricopa County, Arizona--1975,
W76-11068 9-20 7C

Ground-Water Resources and Water Use in Southern Navajo County, Arizona,
W76-11410 9-21 2F

Maps Showing Ground-Water Conditions in the Harquahala Plains Area, Maricopa and Yuma Counties, Arizona--1975,
W76-12299 9-23 7C

Annual Summary of Ground-Water Conditions in Arizona, Spring 1974 to Spring 1975.
W76-12792 9-24 7C

Quantitative Relationship Between Reflectance and Transpiration of Phreatophytes--Gila River Test Site,
W76-12802 9-24 2D

Data on Selected Lakes in Washington, Part 4,
W76-12808 9-24 7C

A Second Locality for Native California Fan Palms (Washingtonia Filifers) in Arizona,
W76-13069 9-24 2I

EOLOGICAL SURVEY, TUSCALOOSA, ALA.
Early Detection and Correction of Sinkhole Problems in Alabama, with a Preliminary Evaluation of Remote Sensing Applications,
W76-11688 9-22 7B

Surface Water Availability, Pickens County, Alabama,
W76-12280 9-23 4A

Water Availability of Monroe County, Alabama,
W76-12281 9-23 4A

GEOLOGICAL SURVEY, VERMILLION, S. D.
Geology and Water Resources of Charles Mix and Douglas Counties, South Dakota, Part I: Geology,
W76-05923 9-12 4A

GEOLOGICAL SURVEY, WASHINGTON, D. C.
Data Requirements for the Optimization of Reservoir Design and Operating Rule Determination,
W76-09622 9-18 4A

Surface Water and Ground Water Interaction Phenomena in Planning Models,
W76-12553 9-23 4B

GEOLOGICAL SURVEY, WINTER PARK, FLA.
Summary of Hydrologic Conditions and Effects of Walt Disney World Development in the Reedy Creek Improvement District, 1966-73,
W76-03908 9-08 4C

GEOLOGICAL SURVEY, WOODS HOLE, MASS.
Interstitial Water Studies on Small Core Samples, Leg 22,
W76-00665 9-02 2L

GEOLOGICSL SURVEY, SALT LAKE CITY, UTAH.
Hydrologic Reconnaissance of the Pine Valley Drainage Basin, Millard, Beaver, and Iron Counties, Utah,
W76-11683 9-22 4B

GEORGE W. BOLLMAN AND CO., INC., ADAMSTOWN, PA. (ASSIGNEE)
Treatment of Wool Scouring Wastes,
W76-01728 9-04 5D

GEORGE WASHINGTON UNIV., WASHINGTON, D. C.
Method of Control of Land and Water Uses in the Coastal Zone,
W76-11922 9-22 6E

GEORGE WILLIAMS COLL., DOWNERS GROVE, ILL.
Professional Bias and Water Reuse,
W76-13096 9-24 5G

GEORGETOWN UNIV., WASHINGTON, D.C. DEPT. OF ECONOMICS.
The Integrated Multi-Media Pollution Model,
W76-01013 9-03 5G

GEORGETOWN UNIV., WASHINGTON, D.C. SCHOOL OF LAW.
Toward an International Standard of Environment,
W76-01970 9-04 6E

GEORGIA AGRICULTURAL EXPERIMENT STATION, SAVANNAH; AND SKIDAWAY INST. OF OCEANOGRAPHY, SAVANNAH, GA.
The Influence of Various Culture Conditions on the Oxygen Consumption of Channel Catfish,
W76-07485 9-15 5C

GEORGIA DEPT. OF NATURAL RESOURCES, ATLANTA. EARTH AND WATER DIV.
Use of Water in Georgia, 1970, with Projections to 1990,
W76-02622 9-06 6D

GEORGIA GENERAL ASSEMBLY, ATLANTA.
Water Recreation Act of 1973.
W76-04460 9-09 6E

GEORGIA INST. OF TECH., ATLANTA.
Identifying the Public in Water Resource Planning,
W76-07238 9-14 6B

Near-Field Jet Penetration and Reservoir Mixing,
W76-09962 9-18 8C

GEORGIA INST. OF TECH., ATLANTA. DEPT. OF GEOPHYSICAL SCIENCE.
New Diver-Operated Bedload Sampler,
W76-12972 9-24 2J

GEORGIA INST. OF TECH., ATLANTA. ENGINEERING EXPERIMENT STATION.
The Cause of Trout Fish Kills Occurring in the Water From the Aerated Hypolimnion of Deep Lakes,
W76-05325 9-11 5C

The Use of Activable Tracers in the Evaluation of the Performance of Wastewater Treatment Plants,
W76-07003 9-14 5A

GEORGIA INST. OF TECH., ATLANTA. ENVIRONMENTAL RESOURCES CENTER.
Formulation of Nonstructural Flood Control Programs,
W76-02879 9-06 6F

Annual Report, Water Resources Research Activities under Public Law 88-379, Fiscal Year 1975.
W76-08163 9-16 9D

GEORGIA INST. OF TECH., ATLANTA. INDUSTRIAL MANAGEMENT.
An Economic Investigation of Tax Policies for Controlling Effluent Discharge,
W76-04535 9-10 5G

GEORGIA INST. OF TECH., ATLANTA. INST. OF GOVERNMENT.
Citizen Enforcers: Influencing Water Resources Allocation Decisions,
W76-00505 9-02 5G

GEORGIA INST. OF TECH., ATLANTA. SCHOOL OF CIVIL ENGINEERING.
Measurement of Active Biomass Concentrations in Biological Waste Treatment Processes,
W76-02268 9-05 5D

Landfill Stabilization with Leachate Recycle,
W76-02440 9-05 5E

Heat Dissipation from Turbulent Open Channel Flow,
W76-05248 9-11 5B

Comparison of the Georgia Tech, Kansas, Kentucky, Stanford and TVA Watershed Models in Georgia,
W76-06806 9-14 2A

Remedial Measures for Urban Flood Peak Reduction,
W76-09736 9-18 2E

Disinfection, (Literature Review),
W76-12924 9-24 5F

Sanitary Landfill Stabilization with Leachate Recycle and Residual Treatment,
W76-13187 9-24 5E

GEORGIA INST. OF TECH., ATLANTA. SCHOOL OF GEOPHYSICAL SCIENCES.
Multivariate Analysis of Georgia Coastal Plain Groundwaters,
W76-12466 9-23 2F

GEORGIA MARINE SCIENCE CENTER, SAVANNAH.
The Economic Impact of Recreational Land-Use in an Island Environment: A Case Study of Jekyll Island, Georgia,
W76-10581 9-20 6B

GEORGIA-PACIFIC CORP., PORTLAND,OREG. (ASSIGNEE).
Clarification Process,
W76-06471 9-13 5F

GEORGIA POWER CO., ATLANTA. ENVIRONMENTAL DIV.
Mineral Pathways in Small Appalachian Streams,
W76-10291 9-19 5B

GEORGIA STATE UNIV., ATLANTA. DEPT. OF GEOLOGY.
Topographic Expression of Superimposed Drainage on the Georgia Piedmont,
W76-07553 9-15 2J

GEORGIA UNIV., ATHENS.
Photographic Analysis of Water Quality Changes,
W76-09199 9-17 5A

GEORGIA UNIV., ATHENS. DEPT. OF AGRICULTURAL ECONOMICS.
An Economic Analysis of Georgia's Marine Charter Boat Fishing Industry,
W76-06624 9-13 6C

Estimated Costs of Mechanical Control of Water Hyacinths,
W76-11141 9-21 5G

GEORGIA UNIV., ATHENS. DEPT. OF AGRONOMY.
Contamination of Water by Air Pollutants, Especially Ammonia from Animal Manures,
W76-04726 9-10 5B

Significance of Biological Nitrogen Fixation and Denitrification in a Deciduous Forest Ecosystem,
W76-10320 9-19 5B

Chemical and Microbiological Changes in Poultry Litter Applied to Soil as Influenced by the Time and Method of Application,
W76-10615 9-20 5E

GEORGIA UNIV., ATHENS. DEPT. OF BOTANY.
Litter Production, Decomposition, and Nutrient Cycling in a Mixed Hardwood Watershed and a White Pine Watershed.
W76-10310 9-19 5B

Mineral Cycling Strategies of Two Deciduous and Two Evergreen Tree Species on a Southern Appalachian Watershed,
W76-10321 9-19 5C

Cation Flux in Hardwood and White Pine Watersheds,
W76-10329 9-19 5B

Nutrient Losses in Particulate Form as Weir Pond Sediments from Four Unit Watersheds in the Southern Appalachians,
W76-10330 9-19 5C

Midsummer Metabolism of an Eelgrass Community,
W76-11594 9-21 5C

GEORGIA UNIV., ATHENS. DEPT. OF CHEMISTRY.
Detection of Trace Phosphorus in Natural Waters by Graphite Oven Flame Analysis,
W76-07672 9-15 5A

Determination of Nitrate Ion at the Part Per Billion Level in Environmental Samples with a Continuous Flow Immobilized Enzyme Reaction,
W76-11636 9-22 5A

GEORGIA UNIV., ATHENS. DEPT. OF GEOLOGY.
Fe-Mn Oxide Coatings in Stream Sediment Geochemical Surveys,
W76-03412 9-07 5B

GEORGIA UNIV., ATHENS. DEPT. OF REAL ESTATE.
Implications of Zoning as An Urban Water Management Measure,
W76-08755 9-17 6F

GEORGIA UNIV., ATHENS. DEPT. OF ZOOLOGY.
A Reservoir Cove Ecosystem Model,
W76-08830 9-17 5C

Nutrient Recycling and the Stability of Ecosystems,
W76-10267 9-19 5C

Mineral Cycling in Marine Ecosystems,
W76-10278 9-19 5C

Mobilization of Mercury from Freshwater Sediments by Humic Acid,
W76-10294 9-19 5C

GEORGIA UNIV., ATHENS. INST. OF ECOLOGY.
A Model of Mineral-Element Cycling for an Invertebrate Food Web in a Southeastern Hardwood Forest Litter Community,
W76-10272 9-19 5C

Factor Analysis: An Exploratory Technique Applied to Mineral Cycling,
W76-10274 9-19 5B

Fallout Cesium-137 and Mineral-Element Distribution in Food Chains of Granitic-Outcrop Ecosystems,
W76-10307 9-19 5B

GEORGIA UNIV., ATHENS. INST. OF GOVERNMENT.
Mariculture: A New Ocean Use,
W76-01956 9-04 6E

Public Rights in Georgia's Tidelands,
W76-07824 9-15 6E

GEORGIA UNIV., ATHENS, INST. OF NATURAL RESOURCES.
A Simulation Approach to the Analysis of Uncertainty in Public Water Resources Projects,
W76-01510 9-04 6B

Economic Implications of Coastal Waste Disposal Alternatives,
W76-11623 9-21 5E

Waste Disposal in Seafood Processing: Public or Private,
W76-13102 9-24 5D

GEORGIA UNIV., ATHENS. SCHOOL OF FOREST RESOURCES.
Non-Point and Diffused Water Sources: Variable Source Area Problem,
W76-07026 9-14 5

GEORGIA UNIV., ATLANTA. DEPT. OF FOOD SCIENCE.
Formation of Methyl Mercury by Bacteria,
W76-02812 9-06 5

GEORGIA UNIV., BRUNSWICK. MARINE RESOURCES EXTENSION CENTER.
Chlorinated Hydrocarbon Pesticides and Mercury in Coastal Biota, Puerto Rico and the U.S. Virgin Islands--1972-74,
W76-08683 9-16 5

GEORGIA UNIV., EXPERIMENT. DIV. OF FOOD SCIENCE.
Physical-Chemical Treatment of Waste Effluents From Canning of Leafy Green Vegetables,
W76-03091 9-07 5

GEORGIA UNIV., EXPERIMENT. DIV. OF FOOD SCIENCES.
Coagulation with Chitosan - An Aid to Recovery of By-Products from Egg Breaking Wastes,
W76-08289 9-16 5

GEORGIA UNIV., SAPELO ISLAND. MARINE INST.
Detritus Production in Coastal Georgia Salt Marshes,
W76-08688 9-16 5

GERAGHTY AND MILLER, INC., PORT WASHINGTON, N.Y.
Water Resources of the World, Selected Statistics.
W76-08507 9-16 7

GESELISCHAFT FUER STRAHLEN- UND UMWELTFORSCHUNG M.B.H., NEUHERBERG BEI MUNICH (WEST GERMANY). INSTITUT FUER RADIOHYDROMETRIE.
On the Water Channels of the Internal Drainage System of the Hintereisferner, Otztal Alps, Austria,
W76-07064 9-14 2

GESELLSCHAFT FUER KERNENERGIEVERWERTUNG IN SCHIFFBAU UND SCHIFFAHRT M.B.H., GEESTHACHT (WEST GERMANY). INSTITUT FUER WERKSTOFFTECHNOLOGIE.
An Advanced Seeding Process in Saline Water Conversion,
W76-02540 9-06 3

GESELLSCHAFT FUER KERNFORSCHUNG M.B.H., KARLSRUHE (WEST GERMANY).
Application of the Finite Element Method in Foundation Engineering (Die Anwendung der Methode der Finiten Elemente in der Grundbaupraxis),
W76-08423 9-16 8D

Fog Formation and Fog Elimination,
W76-08854 9-17 5G

GESELLSCHAFT FUER STRAHLEN- UND UMWELTFORSCHUNG M.B.H., NEUHERBERG BEI MUNICH (WEST GERMANY). INSTITUT FUER O.KOLOGISCHE CHEMIE.
Degradation of Persistent Organochlorine Pollutants by Gamma Radiation and its Possible use for Waste-Water Treatment,
W76-09534 9-18 5D

GESELLSCHAFT FUER STRAHLIEN- UND UMWELTFORSCHUNG M.B.H., NEUHERBERG BEI MUNICH (WEST GERMANY). INSTITUT FUER OKOLOGISCHE CHEMIE.
Dosimetry at a High-Activity Co60 Waste Treatment Facility,
W76-09547 9-18 5D

GESELLSCHAFT ZUR WIEDERAUFARBEITUNG VON KERNBRENNSTOFFEN M.B.H., LEOPOLDSHAFEN BEI KARLSRUHE (WEST GERMANY).
Device for the Continuous Treatment of Liquid Streams,
W76-05033 9-11 5D

GHANA UNIV., LEGON. DEPT. OF BOTANY.
Phenology and Productivity of Pistia Stratiotes L. on the Volta Lake, Ghana,
W76-08036 9-15 5C

GHANA WATER AND SEWERAGE CORP., BOLGATANGA.
The Role of Groundwater in Rural Supplies in Ghana,
W76-06169 9-13 4B

GHENT RIJKSUNIVERSITEIT (BELGIUM). FACULTEIT LANDBOUWWETENSCHAPPEN.
Zooplankton Populations in the 'Water-Sportbaan Georges Nachez' at Ghent in 1972, A Year of Continuous Waterblooming, (In Flemish),
W76-13196 9-24 5C

GHENT RIJKSUNIVERSITEIT (BELGIUM). FACULTEIT LANDBOUWWETENSCHAPPEN; AND GHENT RIJKSUNIVERSITEIT (BELGIUM). LAB. BODEMFYS.
The Moisture Characteristics of Pleistocene Deposits in the Flemish Valley, (In Dutch),
W76-04699 9-10 2G

GHENT RIJKSUNIVERSITEIT (BELGIUM). INSTITUUT VOOR NUKLEAIRE WETENSCHAPPEN.
Neutron Activation Analysis for Bulk and Trace Elements in Urine,
W76-02890 9-06 5A

GHENT RIJKSUNIVERSITEIT (BELGIUM). INTER-FACULTY CENTRE FOR ENVIRONMENTAL SANITATION.
Shifts in Microbial Groups of River Water Upon Passage Through Cooling Systems,
W76-00335 9-01 5C

GHENT RIJKSUNIVERSITEIT (BELGIUM). LABORATORIUM VOOR ANORGANICHE TECHNISCHE CHEMIE, ELEKTROTERMIE EN ELEKTROCHEMIE.
The Elimination of Phosphates and Nitrates of Waste Water by Algae Cultures: I (/n Flemish),
W76-01312 9-03 5D

GHENT RIJKSUNIVERSITEIT (BELGIUM). LABORATORIUM VOOR SYSTEMATIEK MORFOLOGIE.
The Partial Areas of Distribution of Equisetum Telmateia Ehrh. In Belgium and Some New Interesting Stands,
W76-00162 9-01 2I

GIBBS AND HILL, INC., NEW YORK.
Development of an Overall Economic/Environmental Plan for the Monongahela River Basin.
W76-08387 9-16 5C

GIDROKHIMICHESKII INSTITUT, NOVOCHERKASSK (USSR).
Collector-Analyzer for Continuous Automatic Recording of the Temperature, pH, and Electric Conductivity of Atmospheric Precipitation,
W76-04960 9-10 2B

Mechanism of Conversion of Lignin and its Derivatives in Natural Waters (Mekhanizm prevrashcheniya lignina i ego proizvodnykh v prirodnoj vode),
W76-09280 9-17 5B

A Transformations of Sulfate Turpentine in Natural Waters (Protsessy prevrashcheniya sul'fatnogo skipidara v prirodnykh vodakh),
W76-10845 9-20 5B

GIDROMETEOROLOGICHESKII INSTITUT, ODESSA (USSR).
Dissipation of Turbulent Energy in a Natural Channel,
W76-08744 9-16 8B

GIFFORD-HILL AND CO., INC., DALLAS, TEX. (ASSIGNEE).
Self Propelled Sprinkling Irrigation Apparatus,
W76-08407 9-16 3F

GIFU COLLEGE OF PHARMACY (JAPAN).
Studies on Floc-Forming Substances in Activated Sludge. II. Floc-Forming Action by the Viscous Substance Extracted from Activated Sludge by Alkaline Solution. (In Japanese),
W76-00645 9-02 5D

GIFU UNIV., (JAPAN). DEPT. OF CIVIL ENGINEERING.
Turbulence Measurement of a Flow with Suspended Solid Particles,
W76-01470 9-03 8B

GIFU UNIV., (JAPAN). FACULTY OF ENGINEERING.
Biological Treatments of Acid Azo Dyes by Microbial Populations in Activated Sludge, (In Japanese),
W76-03074 9-07 5D

GILBERT ASSOCIATES, INC., READING, PA.
Preparing an Infiltration/Inflow Analysis,
W76-00564 9-02 5D

Practical Application of a Biological/Physical/Chemical Treatment System to Meat Packing Wastewater,
W76-04745 9-10 5D

Coatings for Wastewater Treatment Plants,
W76-09014 9-17 8G

Adapting Industrial Processes for Multi-Purpose Industrial Port Islands,
W76-09378 9-17 5G

Sediment Deposition Model for Tarbela Reservoir,
W76-09970 9-18 2J

Site and Design Temperature Related Economics of Nuclear Power Plants with Evaporative and Non-Evaporative Cooling Tower Systems,
W76-12784 9-24 6G

GILBERT ASSOCIATES, READING, PA.
Streamlining Head-Loss Calculations,
W76-03812 9-08 8B

GILBERT J.B. AND ASSOCIATES, BERKELEY, CALIF.
Water Quality and Resources Planning must be United,
W76-01343 9-03 5G

GILLETTE CO. RESEARCH INST., ROCKVILLE, MD.
Feasibility of Using Sewage Sludge in Highway Embankment Construction,
W76-10624 9-20 5E

GKY AND ASSOCIATES, ALEX., VA.
Decision Perspectives on Urban Storm Water Pollution,
W76-05509 9-12 5D

GKY AND ASSOCIATES, ALEXANDRIA, VA.
Decision Perspectives on Urban Storm Water Pollution,
W76-09207 9-17 5G

GLAMORGAN POLYTECHNIC, PONTYPRIDD(WALES).
Volumetric Changes in Beach Profiles,
W76-00890 9-02 2L

GLASGOW UNIV. (SCOTLAND). DEPT. OF BOTANY.
Aromatic Hydrocarbons and the Growth of Marine Algae,
W76-11813 9-22 5C

GLASGOW UNIV. (SCOTLAND). DEPT. OF ZOOLOGY.
The Respiratory Strategies of two Species of Freshwater Gastropods (Ancylus Fluviatilis Mull and Planorbis Contortus Linn) in Relation to Temperature, Oxygen Concentration, Body Size and Season,
W76-10889 9-20 5C

GLASGOW UNIV. (SCOTLAND). FIELD STATION.
A Lever-Operated Ekman Grab,
W76-03392 9-07 7B

GLOBAL SYSTEMS ANALYSIS AND SIMULATION, TOKYO (JAPAN).
Joint USA/Japan Project on Global Systems Analysis and Simulation (GLOSAS) of Energy, Resources, and Environmental (ERE) Systems,
W76-09610 9-18 6A

GOETTINGEN UNIV. (WEST GERMANY). FACULTY OF AGRICULTURE.
Soil Moisture Regime of Loessial Soils in Western Germany as Affected by Zero-Tillage Methods,
W76-07437 9-14 2G

GOETTINGEN UNIV. (WEST GERMANY).INST. OF SOIL SCIENCE AND FOREST NUTRITION.
Possibilities of Waste Water Irrigation in Forests (Moeglihckeiten der Abwasserverreiselung in Waldbestaenden),
W76-00366 9-01 5D

GOETTINGEN UNIV. (WEST GERMANY). INSTITUT FUER BODENKUNDE.
Preparation of Polyester Jacketed Soil Columns as Penetration, Suction Plate and Groundwater Lysimeters, (In German),
W76-07272 9-14 2G

GOETTINGEN UNIV. (WEST GERMANY). INSTITUT FUER PFLANZENBAU UND PFLANZENZUECHTUNG.
Total Porosity and Pore Size Distribution in Untilled and Tilled Loess Soils, (In German),
W76-09939 9-18 2G

GOLD KIST INC., ATLANTA, GA.
Waste Treatment and Control at Live Oak Poultry Processing Plant,
W76-08185 9-16 3E

GORE AND STORRIE LTD., TORONTO (ONTARIO).
The Treatment of Water Purification Plant Wastes,
W76-11256 9-21 5F

GORGAS MEMORIAL LAB., BALBOA HEIGHTS, CANAL ZONE.
Vibrio Parahaemolyticus in Seawater Off the Pacific Coast of Panama,
W76-06252 9-13 2L

GORKI STATE UNIV. (USSR).
Production of Planktonic Crustaceans of Two Secondary Oligotrophic Lakes, (In Russian),
W76-06301 9-13 5C

GORKII STATE UNIV. (USSR).
Ecology of Planktonic Infusoria of Secondary-Oligotrophic Lake, (In Russian),
W76-11728 9-22 5C

GORKOVSKII MEDITSINSKII INSTITUT (USSR).
Changes of the Groundwater Supply Conditions in Connection with Construction of Reservoirs (Based on Experience of the Gorki Reservoir, (In Russian),
W76-03804 9-08 5C

GORODSKAYA SANITARNO-EPIDEMIO LOGICHESKAYA STANTSIYA, MOSCOW (USSR).
Sanitary-Toxicologic Assessment of Iron Compounds, (In Russian),
W76-11547 9-21 5C

GOSUDARSTVENNAYA PLANOVAYA KOMISSIYA, MOSCOW (USSR).
For a More Complete Utilization of Sulfite and Sulfate Spent Liquors and Prehydrolyzates (Polnee ispol'zovat' sul'fitnye, sul'fatnye shcheloka i predgidrolizaty),
W76-02516 9-06 5B

GOSUDARSTVENNYI MEDITSINSKII INSTITUT, ORENBURG (USSR).
Biological Production Processes in the Ural River, (In Russian),
W76-09919 9-18 5C

GOSUDARSTVENNYI PROEKTNO-IZYSKATELSKII I NAUCHNO-ISSLEDOVATELSKII INSTITUT MORSKOGO TRANSPORTA 'SOYUZMORNIIPROEKT', MOSCOW (USSR).
The Freedom of Navigation and the Problem of Pollution of the Marine Environment,
W76-12010 9-22 5G

Liability for Marine Environment Pollution Damage in Contemporary International Sea Law,
W76-12011 9-22 5G

GOTCO INTERNATIONAL, INC., HOUSTON, TEX.
How to Free a Stuck String,
W76-10110 9-19 8G

GOTEBORG UNIV. (SWEDEN). OCEANOGRAPHIC INST.
Some Observations of the Deep Flow in the Bornholm Strait During the Period June 1973-December 1974,
W76-07557 9-15 2L

GOVERNMENT INDUSTRIAL RESEARCH INST., NAGOYA (JAPAN).
Determination of Silver in Biological Materials by High-Frequency Plasma-Torch Emission Spectrometry,
W76-03304 9-07 5A

GOVERNMENT INDUSTRIAL RESEARCH INST., OSAKA (JAPAN).
A Simple Metho dthe for Detection of Floating Oils on Water, (In Japan),
W76-04062 9-09 5A

The Role of pH on the Acute Toxicity of Sulfite in Water,
W76-08775 9-17 5C

GOVERNMENT INDUSTRIAL RESEARCH INST., TAKAMATSU (JAPAN).
A Study of Renovation of Pulp Waste Water--Treatment of Unbleached Kraft Pulp Washing Waste Water with Lime, (In Japanese),
W76-04227 9-09 5D

Sequential Treatment of Kraft Pulp Washing Wastewater by Pilot Plant: Activated Sludge Treatment, Lime Treatment, and Activated Carbon Adsorption Treatment (In Japanese),
W76-10854 9-20 5D

GOVERNMENT MEDICAL COLL., PATIALA (INDIA). DEPT. OF MEDICINE.
Endemic Fluorosis in Punjab: I. Skeletal Aspect,
W76-12500 9-23 5C

GOVIND BALLABH PANT UNIV. OF AGRICULTURE AND TECHNOLOGY, PANTNAGAR (INDIA).
Thermal Properties of Fine Textured Mollisols Under Varying Moisture Conditions,
W76-08364 9-16 2G

Zinc Nutrition of Rice in Relation to Iron and Manganese Uptake Under Different Water Regimes,
W76-08974 9-17 3F

GOVIND BALLABH PANT UNIV. OF AGRICULTURE AND TECHNOLOGY, PANTNAGAR (INDIA). DEPT. OF AGRICULTURAL ENGINEERING.
A Hele-Shaw Model Study of Steady State Flow in an Unconfined Aquifer Resting on a Sloping Bed,
W76-00540 9-02 2F

GOVIND BALLABH PANT UNIV. OF AGRICULTURE AND TECHNOLOGY, PANTNAGAR (INDIA). DEPT. OF SOIL SCIENCE.
Evaporation Characteristics of Three Fine-Textured Tarai Soils Under Various Evaporation Potentials,
W76-06037 9-12 2D

GRAND RAPIDS CITY ENGINEER OFFICE, MICH.
Sewers - Relining VS Replacement,
W76-10690 9-20 8G

GRAND RAPIDS INDUSTRIAL WASTE PLANT, MINN.
Town Gives Primary and Secondary Treatment to Blandin's Effluent,
W76-10857 9-20 5D

GRAND RAPIDS WASTEWATER TREATMENT PLANT, MICH.
Ferric Chloride and Organic Polyelectrolytes for the Removal of Phosphorus,
W76-07059 9-14 5D

GREAT CANADIAN OIL SANDS LTD., TORONTO (ONTARIO). (ASSIGNEE).
Method of Reducing Sludge Accumulati from Tar Sands Hot Water Process,
W76-05965 9-12 5

Recovering Bitumen from Large Water Su faces,
W76-05992 9-12 5

Method of Storing Sludge Recovered from t Hot Water Extraction of Bitumen from T Sands,
W76-10474 9-19 5

GREAT LAKES BASIN COMMISSION, ANN ARBOR, MICH.
Interdisciplinary Modeling of Limnologic Aspects of the Great Lakes,
W76-00067 9-01 2

Public Priorities for Great Lakes Research,
W76-01515 9-04 5

How the Great Lakes were Evaluated,
W76-06329 9-13 5

GREAT LAKES BASIN COMMISSION, ANN ARBOR, MICHIGAN, PUBLIC INFORMATIO OFFICE.
Appendix 2, Surface Water Hydrology, Gre Lakes Basin Framework Study.
W76-03862 9-08 2

Appendix 3, Geology and Ground Water, Gre Lakes Basin Framework Study.
W76-03863 9-08 2

Appendix 7, Water Quality, Great Lakes Bas Framework Study.
W76-03864 9-08 5

Appendix 11, Levels and Flows, Great Lak Basin Framework Study.
W76-03865 9-08 4

Appendix 12, Shore use and Erosion, Gre Lakes Basin Framework Study.
W76-03866 9-08

Appendix 14, Flood Plains, Great Lakes Bas Framework Study.
W76-03867 9-08 4

Appendix 15, Irrigation, Great Lakes Bas Framework Study.
W76-03868 9-08 3

Appendix 16, Drainage, Great Lakes Bas Framework Study.
W76-03869 9-08 4

Appendix 18, Erosion and Sedimentatio Great Lakes Basin Framework Study.
W76-03870 9-08

GREAT LAKES FORESTRY RESEARCH CENTER, SAULT SAINTE MARIE (ONTARIO).
Water Quality Perception by Users: Can Supplement Objective Water Quality Mea sures,
W76-03168 9-07 5

GREAT LONDON COUNCIL, (ENGLAND), DEPT. OF PUBLIC HEALTH ENGINEERING.
The River Thames Flood Defence Barrier,
W76-03800 9-08 4

GREAT SOUTHERN PAPER CO., CEDAR SPRINGS, GA.
How Mills Cope with Effluent Suspende Solids,
W76-05107 9-11 5

GREATER ANCHORAGE AREA BOROUGH, ALASKA. PLANNING DEPT.
Proposed Floodplain Regulations for the Greater Anchorage Area Borough.
W76-05239 9-11 6F

GREATER CHICAGO METROPOLITAN SANITARY DISTRICT, ILL. SEWER DESIGN SECTION.
Hydraulic Jump in Circular Sewers,
W76-10686 9-20 5D

GREATER LONDON COUNCIL (ENGLAND).
The Operation of a Simplex Activated Sludge Pilot Plant in an Atmosphere of Pure Oxygen,
W76-09669 9-18 5D

GREELEY AND HANSEN, CHICAGO, ILL.
Report on Wastewater Service Charges, Metropolitan Sewerage District, Buncombe County, North Carolina.
W76-03628 9-08 5G

Upgrading Primary Treatment with Chemicals and Water Treatment Sludge,
W76-06286 9-13 5D

Computer Based Control for Wastewater Systems,
W76-10019 9-19 5D

Beneficial Use of Industrial Wastes in Municipal Wastewater Treatment Plants,
W76-11668 9-22 5D

GREEN BAY PACKAGING, INC., WIS.
Process Water Reuse and Control at an NSSC Mill,
W76-02302 9-05 5D

GREEN BAY PACKAGING, INC. WIS. MILL DIV.
Process Water Reuse and Upset Control Modification at an Integrated NSSC Mill,
W76-02356 9-05 5D

GREEN VALLEY FARMS, AVONDALE, PA.
The Environmental and Sociological Impact of Recycling of Agricultural Waste by Land Use,
W76-11641 9-22 5D

GREENE COUNTY BOARD OF COMMISSIONERS, OHIO.
Improved Liquid-Solids Separation by an Aluminum Compound in Activated Sludge Treatment,
W76-12867 9-24 5D

GREENO (JOHN S.), INC., CINCINNATI, OHIO. (ASSIGNEE).
Reaction Arm for Rotary Sprinkler,
W76-10978 9-20 3F

GREENSBORO PUBLIC WORKS, N.C.
Training Opportunities and the Safe Drinking Water Act,
W76-03440 9-07 5F

GRENOBLE UNIVERSITY, GRENOBLE, FRANCE.
Biological Purification of Highly Concentrated Spent Sodium Sulfite Pulping Liquors (Etude de l'epuration biologique de lessives residuaires au sulfite de sodium de forte concentration),
W76-11364 9-21 5D

GRONINGEN RIJKSUNIVERSITEIT (NETHERLANDS). ENVIRONMENTAL ISOTOPES LAB.
Chemistry of Dissolved Inorganic Carbon in Estuarine and Coastal Brackish Waters,
W76-09597 9-18 2L

GROUND WATER INST., POONA (INDIA).
A Mathematical Approach to Some Aspects of Ground Water Flow in Hard Rock Areas,
W76-00402 9-01 4B

GROUPEMENT DE LA CELLULOSE, SAINT-GAUDENS (FRANCE).
Oxidation Unit Cuts Down Odor from Kraft Pulp Mills,
W76-05486 9-11 5D

GUADALQUIVIR PROJECT, MADRID (SPAIN).
Technical, Economic and Organisational Aspects of the Exploitation of Groundwater Resources,
W76-00811 9-02 4B

The Role of Groundwater in the Optimum Utilization of Water Resources,
W76-00815 9-02 4B

GUAM UNIV., AGANA. MARINE LAB.
Effects of Copper on the Coral Reef Echinoid Echinometra Mathaei,
W76-09113 9-17 5C

GUELPH UNIV. (ONTARIO).
Land Disposal of Sewage Sludge, Volume I (November 1972 - March 1973).
W76-06365 9-13 5E

Mineralogy and Related Parameters of Fluvial Suspended Sediments in Northwestern Ohio,
W76-12203 9-23 2J

GUELPH UNIV. (ONTARIO). CENTRE FOR RESOURCES DEVELOPMENT.
Hanlon Creek Ecological Study, Phase A.
W76-03629 9-08 5G

Hanlon Creek Ecological Study, Phase B.
W76-05650 9-12 6G

GUELPH UNIV. (ONTARIO). DEPT. OF BOTANY AND GENETICS.
Lateral Loss of Picloram and 2,4-D from a Forest Podsol During Rainstorms,
W76-06197 9-13 5B

GUELPH UNIV., (ONTARIO). DEPT. OF ECONOMICS.
Optimal Pollution Control with a Nonconstant Exponential Rate of Decay,
W76-03206 9-07 5G

GUELPH UNIV. (ONTARIO). DEPT. OF LAND RESOURCE SCIENCE.
Nitrate Nitrogen Distribution in Corn Land Following Applications of Digested Sewage Sludge,
W76-03814 9-08 5B

Exchange Properties of a Soil Used for the Disposal of Alkali Cannery Wastes,
W76-04737 9-10 5E

Biological Transformation of Clay-Sized Sediments in Simulated Aquatic Environments,
W76-11291 9-21 2J

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W76-04247 9-09 5D

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W76-10064 9-19 2L

GUJARAT UNIV., AHMEDABAD (INDIA). BOTANY DIV.
Effect of Low Moisture Level on Catalase Activity in Some Crop Plants During Juvenile Phase,
W76-10178 9-19 2I

GULF BREEZE ENVIRONMENTAL RESEARCH LAB., WADMALAW ISLAND, S.C. BEARS BLUFF FIELD STATION.
A Review of the Impact of Chlorination Processes Upon Marine Ecosystems,
W76-12890 9-24 5C

GULF COAST RESEARCH LAB., OCEAN SPRINGS, MISS.
Fate and Effects of Crude Oil on an Estuarine Pond,
W76-00148 9-01 5C

An Estuarine Low-Temperature Fish-Kill in Mississippi, With Remarks on Restricted Necropsies,
W76-00321 9-01 5C

Phase III: Sedimentology,
W76-09241 9-17 2L

The Blue Crab Fishery in Mississippi,
W76-12749 9-24 2L

GULF COAST RESEARCH LAB., OCEAN SPRINGS, MISS. FISHERIES SECTION.
Phase I: Area Description,
W76-09239 9-17 2L

Phase II: Hydrology,
W76-09240 9-17 2L

Phase IV: Biology,
W76-09242 9-17 2L

GULF COAST RESEARCH LAB., OCEAN SPRINGS, MISS. MICROBIOLOGY SECTION.
Pathogenicity Studies with a Streptococcus SP. Isolated from Fishes in an Alabama-Florida Fish Kill,
W76-01922 9-04 5C

Chemical and Microbiological Degradation of Malathion and Parathion in an Estuarine Environment,
W76-12437 9-23 5B

GULF ENVIRONMENTAL SYSTEMS CO., SAN DIEGO, CALIF.
Development of Reverse Osmosis Membranes and Spiral Design Modules for Demineralization of Brackish Waters at Low Pressures,
W76-08373 9-16 3A

GULF GENERAL ATOMIC, INC., SAN DIEGO, CALIF.
Gulf General Atomic Phenol Monitor,
W76-03531 9-08 5A

GULF OIL CANADA LTD., CALGARY (ALBERTA).
An Environmental Research Program for Drilling in the Canadian Beaufort Sea,
W76-09912 9-18 5G

GULF RESEARCH AND DEVELOPMENT CO., PITTSBURGH, PA.
The Effect of Geological Features on the Occurrence of Gas Outburst Fractures in the East Midland Coalfield,
W76-00424 9-01 8E

Trailer-Mounted Pilot Plants for Water Conservation,
W76-02800 9-06 5D

GULF SOUTH RESEARCH INST., NEW ORLEANS, LA.
Research and Development of NS-1 and Related Polysulfone Hollow Fibers for Reverse Osmosis Desalination of Seawater,
W76-03257 9-07 3A

GULF SOUTH RESEARCH INST., NEW ORLEANS, LA. DEPT. OF ANALYTICAL CHEMISTRY.
Environmental Implications of Sediment Bulk Analysis Techniques for Trace Metals in Offshore Well-Drilling Operations,
W76-08908 9-17 5A

GULF STATES PAPER CORP., TUSCALOOSA, ALA.
Operating Experience with an Advanced Color Removal System,
W76-02471 9-05 5D

GULF STATES PAPER CORP., TUSCALOOSA, ALA. (ASSIGNEE).
Effluent Treatment Processes,
W76-02771 9-06 5D

GULF UNIVERSITIES RESEARCH CONSORTIUM, GALVESTON, TEX.
International Inventory and Forecast of Offshore Petroleum and Mineral Activity,
W76-03176 9-07 6B

GULF UNIVERSITIES RESEARCH CONSORTIUM, GULFPORT, MISS.
The Offshore Ecology Investigation,
W76-09382 9-17 5G

GURNHAM AND ASSOCIATES, INC., CHICAGO, ILL.
Basics of Pollution Control.
W76-01228 9-03 5D

GUTTERIDGE, HASKINS AND DAVEY PTY. LTD., MELBOURNE (AUSTRALIA).
Urban Water Use in Australia,
W76-03272 9-07 6D

GUYTON (WILLIAM F.) AND ASSOCIATES, AUSTIN, TEX.
Trickle Irrigation with Water of Different Salinity Levels,
W76-08550 9-16 3C

GYPSUM INDUSTRIES LTD., TRANSVAAL (SOUTH AFRICA). (ASSIGNEE).
Method and Apparatus for Treating Sewage,
W76-07436 9-14 5D

HACKBERT, ROOKS, PITTS, FULLAGAR AND POUST, CHICAGO, ILL.
Illinois Environmental Law--The New Assault on Water Pollution,
W76-05198 9-11 5G

HADASSAH MEDICAL SCHOOL, JERUSALEM (ISRAEL). ENVIRONMENTAL HEALTH LAB.
Inactivation of Viruses and Bacteria by Ozone,
W76-00119 9-01 5F

HAGER AND ELSAESSER, STUTTGART-VAIHINGEN (WEST GERMANY). (ASSIGNEE).
Apparatus for the Treatment of Water Solutions by Ion Exchange,
W76-02609 9-06 5D

HALCROW (WILLIAM) AND PARTNERS, LONDON (ENGLAND).
Some In-Situ Permeability Tests in Sands,
W76-00484 9-01 8B

HALLIBURTON CO., DUNCAN, OKLA. CHEMICAL RESEARCH AND DEVELOPMENT DEPT.
Thermal Degradation of Drilling Mud Additives,
W76-08901 9-17 8G

HALLIBURTON SERVICES, DUNCAN, OKLA.
Cement Spacer Fluid,
W76-00387 9-01 8F

Adequate Formation Testing Can Reduce Completion Costs,
W76-03759 9-08 8G

Development of an Economic/Environmental Plan for Dents Run Watershed, West Virginia.
W76-06270 9-13 5G

HAMBURG UNIV. (WEST GERMANY). INSTITUT FUER HYDROBIOLOGIC AND FISCHEREIWISSENSCHAFT.
Preparation of Algae for the Gas Chromatographic Determination of Lindane, (In German),
W76-07979 9-15 5A

HAMBURG UNIV. (WEST GERMANY). INSTITUT FUER HYDROBIOLOGIE UND FISCHEREIWISSENSCHAFT.
Proliferations in the Fish Epidermis after Treatment with Glycolysis Inhibitors, (Proliferationen der Fishepidermis nach der Einwirkung von Inhibitoren des Glykolytischen Energiestoffwechsels),
W76-02387 9-05 5C

Considerations of Testing the Accumulation of Pesticides by Means of Artificial Food Chains,
W76-08361 9-16 5A

HAMILTON COUNTY COMMUNITY DEVELOPMENT, TENN.
Virus Removal in an Activated Sludge Plant,
W76-10230 9-19 5D

HAMPTON ROADS SANITATION DISTRICT, NORFOLK, VA.
Hydrogen Peroxide Solves Hydrogen Sulfide Problem,
W76-03219 9-07 5D

HANFORD ENGINEERING DEVELOPMENT LAB., RICHLAND, WASH.
Acid Digestion of Combustible Wastes: A Status Report,
W76-12776 9-24 5D

HANNINGSON, DURHAM, AND RICHARDSON, OMAHA, NEBR.
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W76-02467 9-05 5D

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Process and Apparatus for Recovering Clean Water and Solids from Dilute Aqueous Solids,
W76-03011 9-07 5D

Process and Apparatus for Recovering Clean Water From Aqueous Wastes,
W76-08408 9-16 5D

HANSHIN CITY IMPROVEMENT BUREAU (JAPAN).
Electric Equipment for Mukogawa Sewage Treatment Plant, Hyogo Prefecture (Hyogoken mukogawa shorijo no denki setsubi),
W76-09000 9-17 5D

HARDY (R. M.) AND ASSOCIATES LTD, EDMONTON (ALBERTA).
Analysis of the Pore Pressure Changes Follo ing the Excavation of a Slope,
W76-03752 9-08

HARMONY EMITTER CO., INC., TUCSON, ARIZ. (ASSIGNEE).
Emitter for Irrigation Systems,
W76-02998 9-06

HARRIS (FREDERICK R.), INC., NEW YORK
Port Collection and Separation Facilities Oily Wastes. Vol. 5. A Comparative Analysis Conceptual System Plans for the Survey Ports Under the 'No Discharge', '1969 Amements' and 'No Sheen' Criteria,
W76-05830 9-12

Evaluation of Multi-Purpose Industrial-P Islands: Sea Island Structure Engineer Research Study,
W76-09375 9-17

HARRIS-GALVESTON COASTAL SUBSIDEN DISTRICT, HOUSTON, TEX.
Harris-Galveston Subsidence District Cree to 'End' Subsidence,
W76-11919 9-22

HARRISBURG STEEL CO., PA.
Automatic Scum Removal Trough,
W76-00578 9-02

HARSCO CORP., HARRISBURG, PA. (ASSIGNEE).
Sludge Control and Decant System,
W76-09419 9-18

HARTZOG, LADER, AND RICHARDS, HILTO HEAD ISLAND, S.C.
Legal Aspects of Public Access to Beaches,
W76-13104 9-24

HARVARD LAW SCHOOL, CAMBRIDGE, MASS.
How Now Brown Cow: Regulation of Feed Pollution In Wisconsin,
W76-03590 9-08

HARVARD MEDICAL SCHOOL, BOSTON, MASS. BIOPHYSICAL LAB.
Charge-Mosaic Membranes,
W76-02734 9-06

HARVARD SCHOOL OF PUBLIC HEALTH, BOSTON, MASS. DEPT. OF ENVIRONMENT HEALTH SCIENCES.
High Gradient Magnetic Filtration of Magne and Non-Magnetic Contaminants from Water
W76-07763 9-15

HARVARD UNIV., BOSTON, MASS. GRADUATE SCHOOL OF BUSINESS ADMINISTRATION.
Investment Sequencing, Allocation, and Lea ing in the Design of Water Resources System An Empirical Application,
W76-09846 9-18

HARVARD UNIV., CAMBRIDGE, MASS.
Models for Groundwater Analysis,
W76-00816 9-02

Simulation Models for Conjunctive Use of Su face and Groundwater,
W76-00817 9-02

HARVARD UNIV., CAMBRIDGE, MASS. BIOLOGICAL LABS.
Acid-Iron Waste as a Factor Affecting the Di tribution and Abundance of Zooplankton in t

New York Bight: I. Laboratory Studies on the Effects of Acid Waste on Copepods,
W76-09700 9-18 5C

ARVARD UNIV., CAMBRIDGE, MASS. DEPT. F ENGINEERING AND APPLIED PHYSICS.
Quantitative Monitoring and Variability of Pelagic Tar in the North Atlantic,
W76-10378 9-19 5B

ARVARD UNIV., CAMBRIDGE, MASS. DIV. F ENGINEERING AND APPLIED PHYSICS.
The Chemistry of Aqueous Chlorine in Relation to Water Chlorination,
W76-12878 9-24 5C

ARVARD UNIV., CAMBRIDGE, MASS. LAB. F APPLIED MICROBIOLOGY.
Mine Drainage Pollution Reduction by Inhibition of Iron Bacteria.
W76-03314 9-07 5G

ARVARD UNIV., CAMBRIDGE, MASS. CHOOL OF BUSINESS ADMINISTRATION.
Developing a Corporate Response to Pollution Control,
W76-02613 9-06 5G

ARYANA AGRICULTURAL UNIV., HISSAR NDIA).
Distribution of Different Qualities of Underground Waters in Rewari Tehsil of Haryana State,
W76-05432 9-11 3C

Climatic Water Balance at Hissar,
W76-06041 9-12 2B

Assessment of Soil Moisture Storage from Rainfall and Its Utility in Rabi Crop Planning in Haryana State,
W76-07769 9-15 2G

Probability Studies of Agricultural Water Management in Haryana State,
W76-07770 9-15 2D

ARYANA AGRICULTURAL UNIV., HISSAR NDIA). DEPT. OF AGRONOMY.
Varietal Response of Peas to Irrigation and Interrow Spacing,
W76-06799 9-13 3F

ARZA ENGINEERING CO., CHICAGO, ILL.
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W76-05001 9-11 6B

Economic Impact of Fiscal Constraints on Water Project Construction, (Card Deck).
W76-05002 9-11 6B

Screening Model For Conjunctive-Use Water Systems,
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Design of Drip Irrigation Main Lines,
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Method and Apparatus for Rejuvenating a Bed of Granular Filter Medium,
W76-09424 9-18 5D

Method and Apparatus for Treating Liquid Contaminated with Radioactive Particulate Solids,
W76-13142 9-24 5D

HYDROMETEOROLOGICAL SERVICE OF THE USSR, MOSCOW.
A Snowmelt Runoff Model and its Application to Short-Range Forecasting of Flood Discharges,
W76-12440 9-23 2C

HYDRONAUTICS, INC., LAUREL, MD.
Development of a Batchwise In-situ Regeneration Type Separator to Remove Oil from Oil-Water Suspensions,
W76-09895 9-18 5G

Transient Thermal Response of Large Lakes to Atmospheric Disturbances,
W76-11439 9-21 2H

HYDROSCIENCE, INC., WESTWOOD, N.J.
Statistical Design of Equalization Basins,
W76-06297 9-13 5D

HYDROTECHNIC CORP., NEW YORK.
Is the Separation of Sewers Desirable,
W76-09739 9-18 5D

HYDROTECHNIC CORP., NEW YORK. (ASSIGNEE).
Filtration and Backwashing Apparatus for Use with a Water Filtration System,
W76-10977 9-20 5F

IBADAN UNIV. (NIGERIA). DEPT. OF BOTANY.
Effects of Antitranspirants on Distribution and Utilization of Photosynthate in Pinus Resinosa Seedlings,
W76-06792 9-13 2I

IBADAN UNIV. (NIGERIA), DEPT. OF GEOGRAPHY.
Water Resources and Their Development in Nigeria,
W76-11860 9-22 4A

IBADAN UNIV. (NIGERIA). DEPT. OF GEOLOGY.
Ecology of the Ogun River Estuary, Nigeria,
W76-07411 9-14 2L

IBARAKI UNIV., MITO (JAPAN). FACULTY OF AGRICULTURE.
Environmental Pollution by Cadmium and Zinc Discharged from a Braun Tube Factory, (In Japanese)
W76-09405 9-18 5B

On the Pollution of Water of Some Rivers in the Kasumigaura Lake Basin, (In Japanese),
W76-12568 9-23 5B

IBM FEDERAL SYSTEMS DIV., GAITHERSBURG, MD.
Scene Correction (Precision Processing) of ERTS Sensor Data Using Digital Image Processing Techniques,
W76-02066 9-05 7C

IBM SPACE SYSTEMS CENTER, HUNTSVILLE, ALA.
Implementation of Hydrologic Models at Goddard Space Flight Center.
W76-08745 9-16 2A

IBM THOMAS J WATSON RESEARCH CENTER, YORKTOWN HEIGHTS, N. Y.
Effect of Sequence Length n on the Choice of Assumed Distribution of Floods,
W76-09851 9-18 4A

ICELAND UNIV., REYKJAVIK. SCIENCE INST.
The Acid-Bubbling Method for Primary Productivity Measurements Modified and Tested,
W76-06716 9-13 5A

Seasonal Variations and Stationarity,
W76-07784 9-15 2A

ICHTHYOLOGICAL ASSOCIATES, INC., BERWICK PA.
Ultrasonic Removal of Epilithic Algae in a Barclamp Sampler,
W76-12939 9-24 5A

ICHTHYOLOGICAL ASSOCIATES, INC., DRUMORE, PA.
Food Habits of the Rough Shiner, Notropis Baileyi Suttkus and Raney, in Halawakee Creek, Alabama,
W76-06126 9-12 2I

ICHTHYOLOGICAL ASSOCIATES, INC., MIDDLETON, DEL.
Experimental Studies in Guiding Marine Fishes of Southern California with Screens and Louvers,
W76-08659 9-16 8I

ICI AMERICA INC., WILMINGTON, DEL.
Factors to Consider when Selecting Granular Activated Carbon for Wastewater Treatment,
W76-01742 9-04 5D

ICI UNITED STATES, INC. WILMINGTON, DEL.
Treatment of Dye Wastes with Granular Activated Carbon,
W76-08716 9-16 5D

The Effectiveness of Granular Activated Carbon in Treating Municipal and Industrial Wastewaters,
W76-11264 9-21 5D

ICI UNITED STATES INC., WILMINGTON, DEL. SPECIALTY CHEMICALS DIV.
Activated Carbon: Old Solution to Old Problem, Part I,
W76-00239 9-01 5D

ICTHYOLOGICAL ASSOCIATES, INC., BERWICK, PA.
A Suction Sampler for Quantitatively Sampling Benthos on Rocky Substrates in Rivers,
W76-01905 9-04 7B

Calculation of Water Temperatures in Clear Lake, Iowa,
W76-09879 9-18 5B

IDAHO BUREAU OF MINES AND GEOLOGY, MOSCOW.
Ground-Water Movement Through an Abandoned Tailings Pile,
W76-06952 9-14 5B

IDAHO DEPT. OF WATER RESOURCES, BOISE; AND IDAHO WATER RESOURCES BOARD, BOISE.
Boise Post-Audit Study, Plan of Study Subproject Report,
W76-02373 9-05 6B

IDAHO RESEARCH FOUNDATION, INC. MOSCOW.
Multiple Objective Planning for Water Resources, (Vol I),
W76-11173 9-21 6B

Multiple Objective Planning for Water Resources, (Volume II),
W76-11174 9-21 6B

IDAHO UNIV., KIMBERLY. WATER RESOURCES RESEARCH INST.
Alternative Methods of Estimating Snow Water Parameters,
W76-08259 9-16 2C

IDAHO UNIV., MOSCOW.
Discussion (Of, 'Corps Urban Planning in St. Louis-Maline Creek: An Interdisciplinary Effort,' by E.D. Rahubka, et al.),
W76-00076 9-01 3D

The Hydrology of an Acid Mine Problem,
W76-06942 9-14 5G

Ground Water Leaching of Jig Tailing Deposits in the Coeur D'Alene District of Northern Idaho,
W76-06951 9-14 5B

IDAHO UNIV., MOSCOW. COLL. OF FORESTRY, WILDLIFE AND RANGE SCIENCES.
A Preliminary Compartment Model of the Nitrogen Cycle in a Deciduous Forest Ecosystem,
W76-10269 9-19 5B

IDAHO UNIV., MOSCOW. DEPT. OF AGRICULTURAL ECONOMICS.
A Methodology for Evaluating Development-Environmental Conflicts on Wild and Scenic Rivers,
W76-11707 9-22 6G

IDAHO UNIV., MOSCOW. DEPT. OF AGRICULTURAL ENGINEERING.
Socioeconomic Analysis of a Major Rehabilitation of Irrigation and Water Management Systems in Eastern Idaho,
W76-06161 9-13 3F

Factors Influencing the Loss of Nitrogen and Phosphorus from a Tract of Irrigated Land,
W76-13014 9-24 5G

Establishing Water, Nutrient and Total Solids Mass Budgets for a Gravity-Irrigated Farm,
W76-13015 9-24 3F

IDAHO UNIV., MOSCOW. DEPT. OF CHEMICAL ENGINEERING.
System Analysis of Refiner Mill Operation,
W76-05487 9-11 5D

IDAHO UNIV., MOSCOW. DEPT. OF CHEMISTRY.
Heavy Metal Pollution in the Sediments of the Coeur D'Alene River Delta,
W76-04091 9-09 5A

IDAHO UNIV., MOSCOW. DEPT. OF CHEMISTRY.

Heavy Metal Content in the Sediments of the Southern Part of the Coeur D'Alene Lake,
W76-07394 9-14 2H

IDAHO UNIV., MOSCOW. DEPT. OF CIVIL ENGINEERING.

Boise Post-Audit Study, Hydrology Support Study,
W76-02372 9-05 6B

Impact of Changes in Irrigation water Management in Eastern Idaho,
W76-08925 9-17 3F

IDAHO UNIV., MOSCOW. DEPT. OF ENTOMOLOGY.

An Evaluation of Squoxin on Insect Drift,
W76-04206 9-09 5A

IDAHO UNIV., MOSCOW. DEPT. OF GEOGRAPHY.

Boise Post-Audit Study, Economic and Ecological History Support Study,
W76-02374 9-05 6B

IDAHO UNIV., MOSCOW. WATER RESOURCES RESEARCH INST.

Planning Water Resources Research Programs,
W76-06440 9-13 6B

IDAHO WATER RESOURCE BOARD, BOISE.

Water Availability For In-Stream Flows: Snake River, Swan Falls-Hells Canyon Dam.
W76-03722 9-08 4A

IDEMITSU KOSAN KABUSHIKI KAISHA (JAPAN). (ASSIGNEE).

Oil Adsorbent,
W76-12409 9-23 5G

IFE UNIV., (NIGERIA). DEPT. OF AGRICULTURAL ENGINEERING.

The Performance-Potential of Polyelectrolytes and High Velocity Gradients in the Treatment of Wastewaters,
W76-09179 9-17 5D

IFE UNIV. (NIGERIA). DEPT. OF SOIL SCIENCES.

The Wilting Point and Available Moisture in Tropical Forest Soils of Nigeria,
W76-07710 9-15 2G

IIT ELECTRO-PHYSICS LAB., INC., COLUMBIA, MD.

Monitoring Estuarine Circulation and Ocean Waste Dispersion Using an Integrated Satellite-Aircraft-Drogue Approach,
W76-10671 9-20 5A

IIT RESEARCH INST., CHICAGO, ILL.

Water Pollution Investigation. Calumet Area of Lake Michigan, Volume 1,
W76-04581 9-10 5C

Water Pollution Investigation. Calumet Area of Lake Michigan, Volume 2,
W76-04582 9-10 5C

IJSSELMEERPOLDERS DEVELOPMENT AUTHORITY, LELYSTAD (NETHERLANDS). SCIENTIFIC DIV.

Data Analysis and System Modelling in Urban Catchment Areas (In the New Town of Lelystad, The Netherlands),
W76-12981 9-24 2A

ILLINOIS DEPT. OF CONSERVATION, SPRINGFIELD. DIV. OF FISHERIES.

Adams County Surface Water Resources,
W76-01317 9-03 7C

Henderson County Surface Water Resources,
W76-01318 9-03 7C

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, SPRINGFIELD. DIV. OF WATER POLLUTION CONTROL.

Lake Michigan Water Quality and Lake Bed Survey, 1973,
W76-06937 9-14 5B

Water Quality Network, 1974 Summary of Data, Volume I - Ohio and Wabash River Basins,
W76-07570 9-15 7C

Water Quality Network, 1974 Summary of Data, Volume 2 - Illinois, Fox, Sangamon, and Kankakee Basins.
W76-07571 9-15 7C

Water Quality Network, 1974 Summary of Data, Volume 3 - Des Plaines River Basin.
W76-07572 9-15 7C

Water Quality Network, 1974 Summary of Data, Volume 4 - Mississippi River (South, South Central, Central, North Central, North), Big Muddy River, Kaskaskia River, and Rock River Basins.
W76-07573 9-15 7C

Water Quality Network, 1974 Summary of Data, Volume 5 - Lake Michigan and its Tributaries.
W76-07574 9-15 7C

Water Quality Network, 1973 Summary of Data, Volume 1 - Ohio and Wabash River Basins.
W76-07575 9-15 7C

Water Quality Network, 1973 Summary of Data, Volume 2 - Illinois, Fox, Sangamon, and Kankakee Basins.
W76-07576 9-15 7C

Water Quality Network, 1973 Summary of Data - Volume 3, Des Plaines River Basin.
W76-07577 9-15 7C

Water Quality Network, 1973 Summary of Data, Volume 4 - Mississippi River (South, South Central, Central, North Central, North), Big Muddy River, Kaskaskia River, and Rock River Basins.
W76-07578 9-15 7C

Water Quality Network, 1973 Summary of Data, Volume 5 - Lake Michigan and Its Illinois Tributaries.
W76-07579 9-15 7C

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, SPRINGFIELD, DIV. STATE OF LAND POLLUTION CONTROL.

Survey of Ground-Water Protection Methods for Illinois Landfills,
W76-00293 9-01 5B

ILLINOIS INST. FOR ENVIRONMENTAL QUALITY, CHICAGO.

Mercury in Laundry Wastewaters,
W76-11602 9-21 5D

ILLINOIS INST. OF TECH., CHICAGO. DEPT. OF ENVIRONMENTAL ENGINEERING.

Application of Gas Chromatography of Volatile Metal Chelates to Water Analysis,
W76-00105 9-01 5A

A Study of the Treatment of Lake Michigan Water Using Direct Filtration,
W76-00175 9-01 5F

Steel Industry Wastes, (Literature Review),
W76-05094 9-11 5D

ILLINOIS POLLUTION CONTROL BOARD, CHICAGO.

Partnership in Pollution Control,
W76-07164 9-14 5G

ILLINOIS STATE DEPT. OF TRANSPORTATION, SPRINGFIELD. DIV. OF WATERWAYS.

Illinois Laws Relating to Waterways, 1973.
W76-02081 9-05 6E

Illinois Laws Relating to Waterways 1973.
W76-10720 9-20 6E

ILLINOIS STATE ENVIRONMENTAL PROTECTION AGENCY, SPRINGFIELD. DIV. OF WATER POLLUTION CONTROL.

Status of the Illinois Livestock Waste Management Regulations,
W76-03984 9-08 5G

ILLINOIS STATE GEOLOGICAL SURVEY, URBANA.

Bluff Erosion, Recession Rates, and Volumetric Losses on the Lake Michigan Shore in Illinois,
W76-12686 9-24 2J

ILLINOIS STATE NATURAL HISTORY SURVEY, URBANA.

An Experiment in the Mixed Culture of Channel Catfish and Largemouth Bass,
W76-01016 9-03 8I

ILLINOIS STATE UNIV., NORMAL. COLL. OF APPLIED SCIENCE AND TECHNOLOGY.

Estuary to be Studied as D.C. Water Source,
W76-03208 9-07 5F

Emergency Repair of Cracked Holding Tank,
W76-03209 9-07 8F

ILLINOIS STATE WATER SURVEY, PEORIA. WATER QUALITY SECTION.

Chemistry of Mun-Water Interface in an Impoundment,
W76-01304 9-03 2K

Water Quality Characteristics of the Illinois River at Peoria,
W76-10922 9-20 5A

Some Water Quality Aspects in a Nascent Impoundment in Central Illinois,
W76-10950 9-20 5B

ILLINOIS STATE WATER SURVEY, URBANA.

Stilling Basin Design for Low Froude Number,
W76-00013 9-01 8B

Heat Assimilative Capacity of the Sangamon River,
W76-03142 9-07 5B

Studies of Selected Precipitation Cases from Metromex.
W76-03353 9-07 2B

The Future of Water Resources in Northeastern Illinois,
W76-03755 9-08 6D

Development of Criteria for Shore Protection Against Wind-Generated Waves for Lakes and Ponds in Illinois,
W76-04728 9-10 8B

Public Groundwater Supplies in Champaign County,
W76-05130 9-11 4B

Public Groundwater Supplies in Calhoun County,
W76-05131 9-11 4B

Public Groundwater Supplies in Massac County,
W76-05132 9-11 4B

Complexes Affecting the Solubility of Calcium Carbonate in Water - Phase II,
W76-05180 9-11 8G

Chemistry of Mud-Water Interface in an Impoundment,
W76-05630 9-12 5C

Public Groundwater Supplies in Putnam County,
W76-06237 9-13 4B

Public Groundwater Supplies in Macoupin County,
W76-06257 9-13 4B

Modeling Techniques for Groundwater Evaluation,
W76-06413 9-13 2F

Urban Effects on the Distribution of Heavy Convective Rainfall,
W76-06680 9-13 4C

Design of an Experiment to Suppress Hail in Illinois,
W76-08330 9-16 3B

Unit Hydrographs - A Comparative Study,
W76-09254 9-17 2E

A Procedure for Estimating Off-Site Sediment Damage Costs and an Empirical Test,
W76-09632 9-18 4A

The Distribution of Heavy Rainfall in a Major Urban Area,
W76-09734 9-18 2B

ILLUDAS - The Illinois Urban Drainage Area Simulator,
W76-09735 9-18 2E

Groundwater Availability in Champaign County,
W76-10718 9-20 4B

Public Groundwater Supplies in McHenry County,
W76-10719 9-20 4B

Urban-Industrial Effects on Clouds and Precipitation,
W76-10905 9-20 4C

Agricultural Engineering Water Resources Information Retrieval of Published Literature,
W76-11691 9-22 10D

A Hypothesis for Urban Rainfall Anomalies,
W76-11744 9-22 2B

Hydrometeorology of Heavy Rainstorms in Chicago and Northeastern Illinois, Phase I - Historical Studies,
W76-11875 9-22 2B

Public Groundwater Supplies in Lake County,
W76-12824 9-24 4B

ILLINOIS STATE WATER SURVEY, URBANA; AND ILLINOIS UNIV. AT URBANA-CHAMPAIGN. WATER RESOURCES CENTER.
Incipient Motion and Sediment Transport,
W76-02877 9-06 2J

ILLINOIS STATE WATER SURVEY, URBANA. ATMOSPHERIC SCIENCES SECTION.
Pollutant Aerosol Deposition into Southern Lake Michigan,
W76-12935 9-24 5B

ILLINOIS STATE WATER SURVEY, URBANA. HYDRAULIC SYSTEMS SECTION.
Hydraulic Model Study of a Settling Basin,
W76-00022 9-01 8B

ILLINOIS UNIV. AT CHICAGO CIRCLE. COLL. OF ENGINEERING.
Panel on Discipline Summaries and Outlooks,
W76-00080 9-01 6A

ILLINOIS UNIV. AT CHICAGO CIRCLE. DEPT. OF GEOLOGICAL SCIENCES.
Towards a Computer-Based Information Monitoring System for Groundwater Data in New Zealand,
W76-11247 9-21 4B

ILLINOIS UNIV., AT CHICAGO CIRCLE. DEPT. OF INFORMATION ENGINEERING.
A Model for the Study of Episodes in the Dispersion of a Conservative Pollutant in Lake Michigan,
W76-11442 9-21 5B

ILLINOIS UNIV. AT THE MEDICAL CENTER, CHICAGO. SCHOOL OF PUBLIC HEALTH.
A Continuous Flow Bioassay Method to Evaluate the Effects of Outboard Motor Exhausts and Selected Aromatic Toxicants on Fish,
W76-08780 9-17 5C

ILLINOIS UNIV. AT URBAN-CHAMPAIGN. DEPT. OF AGRICULTURAL ECONOMICS.
A Comparison of Decision Making and Administrative Organization for Municipal Water Supplies in Medium-Sized and Small Illinois Municipalities,
W76-01503 9-04 6E

ILLINOIS UNIV. AT URBAN-CHAMPAIGN. DEPT. OF BOTANY; AND ILLINOIS UNIV. AT URBAN-CHAMPAIGN. DEPT. OF AGRONOMY.
Relationship of Crop Metabolism and Water Status to Irrigation Need,
W76-01512 9-04 3F

ILLINOIS UNIV., AT URBANA-CHAMPAIGN.
Differing Sensitivity of Corn and Soybean Photosynthesis and Transpiration to Lead Contamination,
W76-00720 9-02 5B

Development of Laboratory Model Ecosystems as Early Warning Elements of Environmental Pollution,
W76-09643 9-18 5C

Thermophilic Aerobic Microbiological Treatment of High Strength Wastewaters and Recovery of Protein,
W76-12623 9-23 5D

ILLINOIS UNIV. AT URBANA-CHAMPAIGN. COLL. OF AGRICULTURE; AND ILLINOIS UNIV. AT URBANA-CHAMPAIGN. COLL. OF ENGINEERING.
Nutritive Value of Aerobically Treated Livestock and Municipal Wastes,
W76-03557 9-08 5D

ILLINOIS UNIV. AT URBANA-CHAMPAIGN. COOPERATIVE EXTENSION SERVICE.
Livestock Waste Management in a Quality Environment,
W76-03991 9-08 5D

ILLINOIS UNIV. AT URBANA-CHAMPAIGN. DEPT. OF AGRICULTURAL ECONOMICS.
Soil Loss from Illinois Farms - Economic Analysis of Productivity Loss and Sedimentation Damage,
W76-08533 9-16 4D

Reform of Illinois Water Resource Laws with Particular Reference to the Drainage Code and Closely Related Laws,
W76-12217 9-23 6E

ILLINOIS UNIV. AT URBANA-CHAMPAIGN. DEPT. OF AGRICULTURAL ENGINEERING.
Pollution-Control Techniques and Requirements,
W76-04420 9-09 5G

Erosion for Corn Tillage Systems,
W76-09248 9-17 3F

Water Quality and Management Characteristics of Feedlot Runoff Holding Ponds,
W76-10545 9-20 5D

Aerobic Waste Treatment,
W76-11035 9-20 5D

ILLINOIS UNIV. AT URBANA-CHAMPAIGN. DEPT. OF AGRONOMY.
Cadmium and Zinc Contents of Corn Leaf and Grain Produced by Sludge-Amended Soil,
W76-06304 9-13 5A

Natural (15)N Abundance in Soil, Leaves, and Grain as Influenced by Long Term Additions of Fertilizer N at Several Rates,
W76-08765 9-17 3F

ILLINOIS UNIV. AT URBANA-CHAMPAIGN. DEPT. OF BOTANY.
Water Transport in Plants: Mechanism of Apparent Changes in Resistance During Absorption,
W76-07265 9-14 2I

ILLINOIS UNIV. AT URBANA-CHAMPAIGN. DEPT. OF CIVIL ENGINEERING.
Removal of Pesticides by Reverse Osmosis,
W76-01223 9-03 5D

A Scheme for Stochastic State Variable Water Resources Systems Optimization,
W76-01685 9-04 2E

Concrete for Tunnel Liners: Behavior of Steel Fiber Reinforced Concrete Under Combined Loads,
W76-02545 9-06 8F

Design of Storm Sewer Networks,
W76-02875 9-06 5D

Design of Storm Sewer Networks,
W76-03006 9-07 4A

Compilation of Methodology used for Measuring Pollution Parameters of Sanitary Landfill Leachate,
W76-05869 9-12 5A

Thermophilic Microbiological Treatment of High Strength Wastewaters with Simultaneous Recovery of Single Cell Protein,
W76-06293 9-13 5D

Experimental Studies of Wing-Wall Mixing Control,
W76-06814 9-14 5B

Detention Storage Control Strategy Development,
W76-07236 9-14 5D

ILLINOIS UNIV. AT URBANA-CHAMPAIGN. DEPT. OF CIVIL ENGINEERING.

Reverse Osmosis Separation of Polar Organic Compounds in Aqueous Solution,
W76-09165 9-17 5D

Evaluation of Pavement Drainage Systems Made of Layers of Open-Graded Bituminous Aggregate Mixtures,
W76-12456 9-23 8F

Influence of Activated Sludge CRT on Adsorption.
W76-12636 9-23 5D

Rest Area Wastewater Treatment and Disposal,
W76-12855 9-24 5D

Urban Stormwater Runoff: Determination of Volumes and Flowrates,
W76-12858 9-24 5B

Sanitary Landfill Leachates and Their Treatment,
W76-12930 9-24 5D

ILLINOIS UNIV. AT URBANA-CHAMPAIGN. DEPT. OF ENTOMOLGY.

Model Ecosystem Studies of Lead and Cadmium and of Urban Sewage Sludge Containing These Elements,
W76-07013 9-14 5C

ILLINOIS UNIV. AT URBANA-CHAMPAIGN. DEPT. OF ENVIRONMENTAL ENGINEERING.

Evaluation of New Reverse Osmosis Membranes for the Separation of Toxic Compounds From Wastewater, Second Annual Summary Report,
W76-00512 9-02 5D

Fundamental Study on the Post Treatment of RO Permeates from Army Wastewaters,
W76-12851 9-24 5D

ILLINOIS UNIV. AT URBANA-CHAMPAIGN. DEPT. OF FINANCE.

The Off-Site Sediment Damage Function in Selected Illinois Watersheds,
W76-03126 9-07 4D

ILLINOIS UNIV. AT URBANA-CHAMPAIGN. DEPT. OF FORESTRY.

Flood-Caused Tree Mortality Around Illinois Reservoirs,
W76-06027 9-12 4A

ILLINOIS UNIV. AT URBANA-CHAMPAIGN. DEPT. OF GEOLOGY.

Solution Chemistry, Mass Transfer, and the Approach to Chemical Equilibrium in Porous Carbonate Rocks and Sediments,
W76-06384 9-13 2K

ILLINOIS UNIV. AT URBANA-CHAMPAIGN. DEPT. OF MICROBIOLOGY.

Biodegradation of Polynuclear Aromatic Hydrocarbon Pollutants by Soil and Water Microorganisms,
W76-08752 9-17 5B

ILLINOIS UNIV. AT URBANA-CHAMPAIGN. HYDROSYSTEMS LAB.

Computer Time and Memory Requirements for DP and DDDP in Water Resource Systems Analysis,
W76-04933 9-10 6A

ILLINOIS UNIV. AT URBANA-CHAMPAIGN. INST. FOR ENVIRONMENTAL STUDIES.

Effects of Lead Chloride on Chloroplast Reactions,
W76-03317 9-07 5C

Effects of Cadmium Nitrate on Spectral Characteristics and Light Reactions of Chloroplasts,
W76-03318 9-07 5C

ILLINOIS UNIV. AT URBANA-CHAMPAIGN. SOIL FERTILITY EXTENSION.

Determining Application Rates of Livestock Wastes to the Land,
W76-03985 9-08 5B

ILLINOIS UNIV. AT URBANA-CHAMPAIGN. WATER RESOURCES CENTER.

Boat-Generated Waves in Lakes,
W76-05128 9-11 2H

ILLINOIS UNIV., URBANA-CHAMPAIGN.

Field Performance of Selected Beef Feedlot Waste Handling Systems,
W76-01040 9-03 5E

ILLINOIS UNIV., URBANA. COOPERATIVE EXTENSION SERVICE.

The Design and Operation of an Open-Front, Slotted Floor Beef Confinement Building,
W76-00447 9-01 5D

ILLINOIS UNIV., URBANA. DEPT. OF AGRONOMY.

Nitrate Occurrence in Some Soils with and Without Natric Horizons,
W76-00836 9-02 2G

ILLINOIS UNIV., URBANA. DEPT. OF CIVIL ENGINEERING.

Active Carbon: Dechlorination and the Adsorption of Organic Compounds,
W76-00113 9-01 5D

Reduction of Aqueous Free Chlorine with Granular Activated Carbon,
W76-00176 9-01 5D

ILLINOIS WATER TREATMENT CO., ROCKFORD.

Wastewater Recycle for Dye Houses.
W76-05336 9-11 5D

IMPERIAL CHEMICAL INDUSTRIES LTD., BILLINGHAM (ENGLAND). AGRICULTURAL DIV.

Novel Aeration System Bows,
W76-06289 9-13 5D

IMPERIAL CHEMICAL INDUSTRIES LTD., BIXHAM (ENGLAND). BRIXHAM RESEARCH LAB.

The Acute Toxicity of Dissolved Elemental Phosphorus to Cod (Gadus Morhua),
W76-08450 9-16 5C

IMPERIAL CHEMICAL INDUSTRIES, LTD., LONDON (ENGLAND).

Flotation: Two Fresh Ways to Treat Effluents,
W76-12661 9-23 5D

IMPERIAL COLL. OF SCIENCE AND TECHNOLOGY, LONDON (ENGLAND).

Ground Water Conditions in Greater Tehran,
W76-00414 9-01 4B

Suspended-Sediment Sampling Towers as used on the Intertidal Flats of the Wash, Eastern England,
W76-07087 9-14 2L

Artificially Simulating the Geological History of Clay,
W76-08421 9-16 8D

IMPERIAL COLL. OF SCIENCE AND TECHNOLOGY LONDON (ENGLAND).

APPLIED GEOCHEMISTRY RESEARCH GROUP.

Effect of Zinc on the Settlement of the Oyster Crassostrea Gigas,
W76-00866 9-02 5C

Stream Sediment Composition: An Aid to Water Quality Assessment,
W76-11367 9-21 5A

A Trace Metal Problem in Pond Oyster Culture,
W76-11723 9-22 5C

Distribution of some Trace Metals in Poole Harbour, Dorset,
W76-11965 9-22 5B

IMPERIAL COLL. OF SCIENCE AND TECHNOLOGY, LONDON (ENGLAND). DEPT. OF PUBLIC HEALTH ENGINEERING.

Factors Affecting the Extraction and Analysis of Polynuclear Aromatic Hydrocarbons in Water,
W76-09200 9-17 5A

IMPERIAL VALLEY CONSERVATION RESEARCH CENTER, BRAWLEY, CALIF.

Redox Potential in Irrigated Desert Soils as an Indicator of Aeration Status,
W76-09488 9-18 2G

INCINERATOR CO., HUNTINGTON (ENGLAND).

Incineration's Role in Ultimate Disposal of Process Wastes,
W76-05791 9-12 5E

INDIAN AGRICULTURAL RESEARCH INST. NEW DELHI.

Moisture use Efficiency of Dryland Crops as Influenced by Fertilizer Use II. Rabi Cereals,
W76-10186 9-19 3F

Effect of Tillage on Soil Structure and Plant Growth Under Rain-Fed Conditions,
W76-10487 9-19 2G

INDIAN AGRICULTURAL RESEARCH INST., NEW DELHI. DIV. OF AGRICULTURAL PHYSICS.

Estimation of Evapotranspiration for Water Balance Studies in a Semi-Arid Region,
W76-08067 9-15 2D

INDIAN AGRICULTURAL RESEARCH INST., NEW DELHI. DIV. OF AGRONOMY.

Effect of Soil-Moisture Regimes and N and P Fertilization on Berseem Grown for Fodder,
W76-08987 9-17 3F

INDIAN INST. OF SCIENCE, BANGALORE.

A Note of Convective Precipitation in Numerical Models,
W76-03372 9-07 2B

INDIAN INST. OF SCIENCE, BANGALORE. DEPT. OF BIOCHEMISTRY.

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W76-10513 9-20 5D

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W76-04791 9-10 5D

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W76-04951 9-10 4B

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W76-00534 9-02 7C

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Sedimentation in Lake Lemon, Monroe County, Indiana,
W76-01314 9-03 2J

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W76-03936 9-08 6F

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W76-12581 9-23 5G

Development of Residuals Management Strategies: An Executive Summary,
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Water-Distribution-System Corrosion Control,
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Device for Membrane Filtration,
W76-05037 9-11 5F

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Board Mill Wastewater Treatment System with Countercurrent Dissolved Air Flotation Thickening and Vacuum Filter Dewatering,
W76-11380 9-21 5D

INGLEWOOD WATER DEPT., CALIF.
Monitoring Lab Gives City the Jump on Safe Drinking Water Regulations,
W76-03240 9-07 5F

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Biology of the Rudd Scardinius Erythrophthalmus (L) in Irish Waters,
W76-07419 9-14 2H

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Biological Problems of a Manmade Small Lake, (In German),
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System for Treating Sludge,
W76-11216 9-21 5D

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Minimizing Chemical and Fines Buildup in White Water by Chemical Means,
W76-07639 9-15 5D

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Automatic Determination of Sulfates by an Improved Nephelometric Method: Application to the Determination of SO2 in Atmospheric Air and of Sulfates in Rain Water, (In French),
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Possibility of Determining the Rate of Seasonal Radial Growth of Trunks and Changes in the Water Regime of Trees Using a Photometric Curve, (In Russian),
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Device for Recovering Polluting Products Spread Over the Water Surface, In Particular Oil Products,
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Experience with a Pilot Plant for the Irradiation of Sewage Sludge, Bacterial and Parasitological Studies AfterIrradiation.
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The Utilization of ERTS-1 Data for the Study of the French Atlantic Littoral,
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Decomposition of Nitrogenous Organic Substances in Surface Waters, (In Russian),
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Correction of Bias in the Estimation of the Coefficient of Skewness,
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Migration Ability of Radionuclides and Their Transition Into Water When Using Atomic Energy for Peaceful Purposes,
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Conceptual Hydrological Model for an Averaged-Sized Catchment Area, I. Concepts and Relationships,
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Conceptual Hydrological Model for an Average-Sized Catchment Area, II. Estimate of Parameters, Validity of Model, Application,
W76-09580 9-18 2A

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Trace-Element Analysis Using X-Ray Emission Spectroscopy,
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W76-10518 9-20 5A

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The Hydrology of a Small Catchment Basin at Samaru, Nigeria: I. Seasonal Fluctuations in the Height of the Ground Water Table,
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Effects of Oils on Baltic Littoral Community, as Studied in an Outdoor Model Test System,
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Groundwater Resources of Altun-Kupri Area,
W76-06576 9-13 4B

A Proposal for Future Utilization of Tharthar Lake Water,
W76-06577 9-13 3C

Soil Moisture Regime of Unsaturated Zone in Some Arid Regions,
W76-06578 9-13 2G

Investigation of Some Physical Properties of the Soils in the Dalmaj Pilot Project Area,
W76-06579 9-13 2G

Characteristics and Classification of Two Soils in Diyala Basin, Iraq,
W76-06580 9-13 2G

Drainage and Reclamation Performance at the Imam Experimental Field in the Greater Mussayeb Project, a Monitoring Study,
W76-06581 9-13 3C

Effect of Salinization on Certain Soil Microflora,
W76-06582 9-13 5C

Comparative Evaluation of Yearly Climatic Factors with the Five Years Averages for Fudhaliya Agro-Meteorological Station,
W76-09066 9-17 2B

Comparative Evaluation of Climatic Factors and Conditions at Fudhaliya Agro-Meteorological Station and Baghdad Airport Meteorological Station,
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Hydrogeological Conditions of Al-Hamad Area, Iraq,
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Phytoplankton of the Vlasina Lake During the Period 1949-1964, (In Serbo-Croatian),
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Finite Difference and Finite Element Simulation of Field Water Uptake by Plants,
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Cities Need Sewerless Toilets,
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Public Involvement in the Corps of Engineers Planning Process,
W76-06417 9-13 6B

Economic Concepts and Techniques Pertaining to Water Supply, Water Allocation, and Water Quality,
W76-08152 9-16 6B

Water Supply.
W76-08153 9-16 4A

Water Allocation.
W76-08154 9-16 6B

Water Quality.
W76-08155 9-16 5G

Control of Acid Mine Drainage.
W76-08156 9-16 5G

Hydroelectric Power Potential at Corps of Engineers Projects. Recommendations and Executive Summary,
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Hydroelectric Power Potential at Corps of Engineers Projects,
W76-09765 9-18 6B

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Sr90 in the Water-Atmosphere Interface,
W76-06888 9-14 5B

Accumulation of Sr90, Ca, and Sr By Fish in Seas And Oceans,
W76-06896 9-14 5C

Accumulation of Radioactive and Stable Zinc by Black Sea Algae Cystoseira Barbata and Ulva Rigida,
W76-06897 9-14 5C

On Th234 Accumulation by Marine Organisms,
W76-06898 9-14 5C

Mathematical Model of Sr90 Exchange Between Cystoseira and Marine Water,
W76-06899 9-14 5C

Radioecologo-Biochemical Approach to the Study of the Cobalamine Cycle in the Ocean,
W76-06900 9-14 5C

The Role of Some Polysaccharides of Brown Algae in the Extraction of SR90 from Sea Water,
W76-06901 9-14 5C

Influence of Salinity and Concentration of Sr and Ca in Water on the Sr90 Accumulation by Cystoseira,
W76-06903 9-14 5C

Interrelation Between Weight and Linear Indices in Black Sea Oysters, (In Russian),
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Effect of Food Concentration on Efficiency of its Assimilation by Planktonic Crustaceans with Different Feeding Mechanisms, (In Russian),
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Marine Soil Pollution and Self-Purification, (In Russian),
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Influence of Oil on Nucleic Acids of Algae,
W76-11821 9-22 5C

Comparative Estimation of the Role of Detritus and Algae in Neomysis Mirabilis (Czerniavsky) Nutrition, (In Russian),
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Certain Aspects of the Process of Enterovirus Inactivation with Chlorine, (In Russian),
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Water Supplies from Ulster Valley Gravels,
W76-12524 9-23 4B

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W76-00309 9-01 4B

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The Use of Likelihood Functions to Fit Conceptual Models with More than One Dependent Variable,
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Application of a Residence Time Model to Dilution Gauging, with Particular Reference to the Problem of Changing Discharge,
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A Comparison of Trace-Metal and Metalloenzyme Profiles in Different Molluscs and During Development of the Oyster,
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Treatment of Sulfite Evaporator Condensates for Recovery of Volatile Components,
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Kraft Effluent Color Nature Before and After Lime Treatment,
W76-04081 9-09 5D

The Benthos of Pictou Harbor and Northumberland Strait, Canada -- A Measure of the Impact of Treated Kraft Pulp Mill Effluent,
W76-09294 9-17 5C

Purification of Lignosulfonates by Dynamic Membrane Ultrafiltration,
W76-10868 9-20 5D

Research on the Mechanisms for Removal of Soluble BOD(5) in Clarifier Systems,
W76-11378 9-21 5D

Color Characterization of Kraft Linerboard Decker Effluent,
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W76-01913 9-04 5C

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W76-08617 9-16 5A

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W76-10037 9-19 5D

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A Study of Extreme Point Rainfall over Flash Flood Prone Regions of the Himalayan Foothills of North India,
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Trend Analysis of Annual Indian Rainfall,
W76-05691 9-12 2B

A Study of Major Rain Storms Over and Near Mahi Basin up to Kadana Dam Site for the Evaluation of Probable Maximum Design Storm,
W76-08069 9-15 2B

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W76-07296 9-14 8I

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W76-07310 9-14 5C

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W76-10000 9-18 2G

Microbiological Characterization of the Lacustrine Deposit Laid Open by Drying up of the Greaca Lake, (In Romanian),
W76-12571 9-23 2J

Studies on the Interactions Between Soil Water and Thinly Dispersed Solid Matter Using the Moist Heat Method, (In Romanian),
W76-12706 9-24 2G

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W76-12856 9-24 2G

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W76-07506 9-15 5D

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W76-08183 9-16 5D

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W76-08295 9-16 5D

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W76-07110 9-14 5D

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W76-01516 9-04 6B

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W76-09490 9-18 5C

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The Role of Predictions in Water Resources Policy Making,
W76-07136 9-14 4A

Interbasin Transfer of Water Resources,
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W76-12533 9-23 6B

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W76-03148 9-07 3A

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W76-11034 9-20 5D

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W76-11037 9-20 5D

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W76-11039 9-20 5D

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W76-11041 9-20 5D

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W76-05457 9-11 5C

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W76-05642 9-12 5C

A Study of the Effects of Stream Channelization and Bank Stabilization on Warmwater

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W76-12230 9-23 4C

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W76-07212 9-14 5G

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W76-05608 9-12 5B

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W76-11032 9-20 5D

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W76-11042 9-20 5D

Economic Considerations Involved in Selecting Types of Confinement and Waste Disposal Systems for Swine and Beef,
W76-11043 9-20 5D

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W76-11044 9-20 5D

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W76-03164 9-07 5G

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W76-03987 9-08 5B

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W76-00456 9-01 5D

Nitrate, Phosphorus, and Sulfate in Subsurface Drainage Water,
W76-01146 9-03 5B

Effect of Tillage Systems on Runoff Losses of Pesticides: A Simulated Rainfall Study,
W76-11169 9-21 5B

IOWA STATE UNIV., AMES. DEPT. OF AGRONOMY.
Screen Theory for Wells and Soil Drainpipes,
W76-00490 9-01 8B

Plant Nutrient Losses From Tile-Outlet Terraces,
W76-00723 9-02 5B

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W76-00734 9-02 8B

Measuring Soil Creep,
W76-01856 9-04 7B

Control of Nitrogen Transformations in Soils,
W76-03141 9-07 5B

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W76-09760 9-18 5G

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W76-12739 9-24 2G

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Oxygen Transfer in Fermentation,
W76-03321 9-07 5A

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W76-05458 9-11 5C

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W76-00223 9-01 5D

Cost Optimization of Rural Water Systems,
W76-11167 9-21 6C

IOWA STATE UNIV., AMES. DEPT. OF CIVIL ENGINEERING; AND IOWA STATE UNIV., AMES. ENGINEERING RESEARCH INST.
Developments in Backwashing of Granular Filters,
W76-01745 9-04 5D

Loess Distribution by Variable Winds,
W76-10941 9-20 2J

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Preferred Position Model and Subsurface Symmetry of Valleys,
W76-02410 9-05 2A

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Management of Water Quality Through Selected Institutions and Instruments,
W76-05453 9-11 5G

Identification, Measurement, and Incorporation of Environmental Quality Objectives in Natural Resource Development,
W76-08101 9-16 6B

Efficient Resource Utilization Within a Regional Framework.
W76-08102 9-16 6B

IOWA STATE UNIV., AMES. DEPT. OF NUCLEAR ENGINEERING; AND IOWA STATE UNIV., AMES. DEPT. OF CHEMICAL ENGINEERING.
Population Balance Use in Dilute Impurity Problems,
W76-12914 9-24 5B

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Community Values and Collective Action in Reservoir Development,
W76-04015 9-09 6B

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Swine Waste Lagoons as Potential Disease Reservoirs,
W76-07192 9-14 5B

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Nutrients and Algae in Some Central Iowa Streams,
W76-01152 9-03 5C

IOWA STATE UNIV., AMES, NORTH-CENTRAL REGIONAL EXTENSION PROJECT.
Area Needed for Land Disposal of Beef and Swine Wastes,
W76-01029 9-03 5E

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Monitoring on-farm waste management systems.
W76-00914 9-02 5D

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W76-02880 9-06 6B

Movement of Herbicides in Soil by Mass Flow,
W76-03134 9-07 5B

Objectives and Scope.
W76-04517 9-10 4A

The Valley and Its Natural Resources.
W76-04518 9-10 4A

Man's Influence and Future Population Trends,
W76-04519 9-10 4A

Alternative Development Opportunities,
W76-04520 9-10 4A

Study Framework for Total Impact Analysis.
W76-04521 9-10 4A

Impact on Natural Resources: Category 1 Studies,
W76-04522 9-10 4A

Social and Economic Impacts and Public Attitudes: Category 2 Studies.
W76-04523 9-10 4A

Regional Outdoor Recreation and Open Space Needs: Category 3 Studies.
W76-04524 9-10 4A

Impact of Agriculture: Category 4 Studies.
W76-04525 9-10 4A

Urban Impact: Category 5 Studies.
W76-04526 9-10 4A

Summary of Detailed Project Evaluation.
W76-04527 9-10 4A

Final Recommendations.
W76-04528 9-10 4A

Study Implications and Public Decision-Making.
W76-04529 9-10 4A

IOWA UNIV., IOWA CITY. DEPT. OF CHEMISTRY.

The Square-Wave Polarograph and Its Application to the Determination of Heavy Metals in the Environment,
W76-03530 9-08 5A

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Oxidation Ditch Treatment of Meat Packing Wastes,
W76-08223 9-16 5D

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Physical and Economic Aspects Associated with Runoff from Urban Growth: A Methodological Approach,
W76-09749 9-18 4C

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The Impact of Suburbanization on Fluvial Geomorphology,
W76-02702 9-06 4C

The Impact of Suburbanization on the Stream Channel Networks of Ralston Creek and South Branch, Iowa,
W76-13051 9-24 4C

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W76-04673 9-10 5B

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Efficient Sequential Optimization in Water Resources,
W76-01338 9-03 6A

Turbulent Jets with Reversible Buoyancy,
W76-01849 9-04 5B

Surface Roughness Effects on the Mean Flow Past Circular Cylinders,
W76-02402 9-05 8B

Effects of Large Thermal Discharges on Ice-Covered Rivers,
W76-03139 9-07 5C

Optimum Design of Dry-Wet Combination Cooling Towers for Power Plants,
W76-04805 9-10 5B

Plume Recirculation and Interference in Mechanical-Draft Cooling Towers,
W76-04806 9-10 5B

Numerical Calculation of the Wave Integrals in the Linearized Theory of Water Waves,
W76-07565 9-15 8B

The Water and Total Optimizations of Wet and Dry-Wet Cooling Towers for Electric Power Plants,
W76-07674 9-15 3E

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W76-08324 9-16 5A

Thermal-Hydraulic Model Study of Offshore Discharge System for Kahe Power Plant, Hawaii,
W76-08508 9-16 5B

Longitudinal Dispersion Coefficients for Streams,
W76-09589 9-18 5B

A Laboratory Investigation of the Mechanics and Hydraulics of River Ice Jams,
W76-10714 9-20 2C

Thermal Response of Heated Streams, Solution by the Implicit Method,
W76-12685 9-24 5B

IOWA UNIV., IOWA CITY. INST. OF URBAN AND REGIONAL RESEARCH.

The Impact of Suburbanization on Stream Networks,
W76-11113 9-21 4C

IRAN PLAN ORGANIZATION, TEHRAN.

Effect of Abrupt Textural Change on Potential Profiles During Steady-State Infiltration,
W76-01853 9-04 2G

IRKUTSKII GOSUDARSTVENNYI UNIVERSITET (USSR).

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IRRIGATION AND POWER RESEARCH STATION, AMRITSAR (INDIA).

Scope of Tidal Power from Indian Estuaries,
W76-09639 9-18 2L

IRVINE RANCH WATER DISTRICT, CALIF.

Wastewater Treatment in a Pressure Pipe,
W76-00785 9-02 5D

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Pollution in the Effluents of Bracciano Lake and in Arrone Stream, on the Basis of the Distribution of Simuliidae, Chironomidae, Culcidae and Other Diptera, (In Italian),
W76-11570 9-21 5B

ITASCA, ILL.

Aerated Lagoons Provide Effective Tertiary Treatment,
W76-01287 9-03 5D

ITEK CORP., LEXINGTON, MASS. OPTICAL SYSTEMS DIV.

Automated Thematic Mapping and Change Detection of ERTS-1 Images,
W76-02063 9-05 7B

ITT INDUSTRIES, INC., NEW YORK.

Method for Treating Hemi Caustic Effluents,
W76-12495 9-23 5D

ITT INDUSTRIES, INC., NEW YORK. (ASSIGNEE).

Sewage Treatment Method and Apparatus,
W76-11835 9-22 5D

IWAO ENGINEERING CO., INC., TOKYO (JAPAN). (ASSIGNEE).

Process of Removing Ammoniacal Nitrogen from Waste Water,
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Floatage Concentrating Equipment for Nautical Floatage Recovery Apparatus,
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Ecology and Biogeography of Mayflies (Ephemeroptera) of Running Waters in the Polish Part of the Carpathians. 1. Distribution and Quantitative Analysis,
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Ciliate Associations (Ciliata) in the Pradnik Stream, Which is Polluted by Residual Waters of a Dairy, (In French),
W76-08777 9-17 5C

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The Water Fauna of the High Mountain Glacier Lakes in the Mandaras Valley in the High Hindu Kush, (In Polish),
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Financing and Management of the Proposed Sewerage Scheme for Jaipur Town,
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W76-06131 9-12 2L

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The Radiation-Induced Degradation of Azo Dyes in Aqueous Solutions,
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W76-00762 9-02 5D

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W76-08007 9-15 5A

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Sewage Treatment Tank and Tube Settler,
W76-09417 9-18 5D

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Digital Image Enhancement Techniques Used in Some ERTS Application Problems,
W76-02068 9-05 7C

Carbon Wastewater Treatment Process,
W76-09441 9-18 5D

JODHPUR UNIV. (INDIA). DEPT. OF BOTANY.
Role of Phenylmercuric Acetate on Stomatal Regulation and Water Loss in Prosopis Cineraria Linn,
W76-06011 9-12 5G

JOHN HOPKINS UNIV., BALTIMORE, MD. CHEASPEAKE BAY INST.
A Note on Aquadratic Friction in the Presence of Tides,
W76-03375 9-07 2L

JOHNS HOPKINS UNIV., BALTIMORE, MD.
Erosion in the Urban Environment,
W76-00546 9-02 2J

New Strategies for Water Resource Planning and Management,
W76-01354 9-03 4A

Project Evaluation During Inflation,
W76-02444 9-05 6B

Water Rates: An Assessment of Current Issues,
W76-03439 9-07 5F

The Fate of Nutrients in Back River,
W76-05625 9-12 5C

Phytoplankton Entrainment Studies at the Indian River Estuary, Delaware,
W76-08636 9-16 5C

Estimates of Industrial Waterborne Residuals Control Costs: A Review of Concepts, Methodology, and Empirical Results,
W76-11160 9-21 5G

JOHNS HOPKINS UNIV., BALTIMORE, MD. CHESAPEAKE BAY INST.
The Distribution of Excess Temperature from the Vienna Generating Station on the Nanticoke River,
W76-01843 9-04 5B

Hatching Success of Blueback-Herring and Striped-Bass Eggs with Various Time vs. Temperature Histories,
W76-02008 9-05 5C

Effects of Tropical Storm Agnes on the Suspended Solids of the Northern Chesapeake Bay,
W76-03884 9-08 2L

JOHNS HOPKINS UNIV., BALTIMORE, MD., DEPT. OF EARTH AND PLANETARY SCIENCE.
Turbulent Entrainment at the Density Interface of a Two-Layer Stably Stratified Fluid System,
W76-11871 9-22 2L

JOHNS HOPKINS UNIV., BALTIMORE, MD. DEPT. OF EARTH AND PLANETARY SCIENCES.
Wave Breaking in the Presence of Wind Drift and Swell,
W76-09874 9-18 2L

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Chemical Forms of Arsenic in Water Supplies and Their Removal,
W76-00109 9-01 5F

Effects of Entrainment of Zooplankton at Three Mid-Atlantic Power Plants,
W76-02315 9-05 5C

Environmental Responses to Thermal Discharges from Marshall Steam Station, Lake Norman, North Carolina,
W76-05870 9-12 5C

Introduction and Physical Description of Lake Norman,
W76-05871 9-12 5C

Thermal and Water Quality Characteristics of Lake Norman,
W76-05872 9-12 5C

Plankton Populations,
W76-05873 9-12 5C

Primary Production,
W76-05874 9-12 5C

The Effect of Thermal Discharge on the Rate of Accumulation of Organic Substances on Glass Surfaces Immersed in Lake Norman,
W76-05875 9-12 5C

Zooplankton Entrainment,
W76-05876 9-12 5C

Benthic Invertebrates,
W76-05877 9-12 5C

Fisheries Research,
W76-05878 9-12 5C

Entrainment of Planktonic Organisms into Cooling Water Systems of Three Mid-Atlantic Thermal Power Plants,
W76-08635 9-16 5C

Effects of Condenser Entrainment on Algal Photosynthesis at Mid-Atlantic Power Plants,
W76-08637 9-16 5C

Effects of Condenser Destruction of Algae on Dissolved Oxygen Levels in the James River,
W76-08638 9-16 5C

Entrainment of Zooplankton at Three Mid-Atlantic Power Plants,
W76-08639 9-16 5C

Water System Behavior: Determinants in an Arid Region,
W76-09483 9-18 4A

Environmental Responses to Thermal Discharges from the Chesterfield Station, James River, Virginia,
W76-09652 9-18 5C

JOHNS HOPKINS UNIV., BALTIMORE, MD. DEPT. OF MECHANICS AND MARINE SCIENCE.
On the Depth of the Halocline in an Estuary,
W76-01270 9-03 2L

JOHNS HOPKINS UNIV., BALTIMORE, MD. DEPT. OF MECHANICS AND MATERIALS SCIENCE.
Drag Reducing Polymer in Helicoidal Flow,
W76-11763 9-22 8B

JOHNS HOPKINS UNIV., BALTIMORE, MD. DEPT. OF MECHANICS AND MATERIALS SCIENCES; AND JOHNS HOPKINS UNIV., BALTIMORE, MD. DEPT. OF EARTH AND PLANTARY SCIENCES.
Circulations and Density Distributions in a Deep, Strongly Stratified, Two-Layer Estuary,
W76-03172 9-07 2L

JOHNS HOPKINS UNIV., BALTIMORE, ,MD. MCCOLLUM-PRATT INST.
Growth and Dissipation of Phytoplankton in Chesapeake Bay: I. Response to a Large Pulse of Rainfall,
W76-12572 9-23 5C

JOHNS HOPKINS UNIV., BALTIMORE, MD. SCHOOL OF HYGIENE AND PUBLIC HEALTH.
The Dynamics of Metals in the American Oyster, Crassostrea Virginica. I. Seasonal Effects,
W76-01938 9-04 5C

Factors in the Elimination of the Immature Stages of Anopheles Quadrimaculatus Say in a Water Level Fluctuation Cycle,
W76-02430 9-05 5G

JOHNS HOPKINS UNIV., LAUREL, MD. APPLIED PHYSICS LAB.
Mechanical-Draft Cooling Tower Visible Plume Behavior: Measurements Models, Predictions,
W76-04817 9-10 5B

Radar Derived Spatial Statistics of Summer Rain - Experiment Description,
W76-12178 9-23 7B

Radar Derived Spatial Statistics of Summer Rain - Data Reduction and Analysis,
W76-12179 9-23 7B

Radar Derived Spatial Statistics of Summer Rain - Appendices.
W76-12180 9-23 7B

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W76-06491 9-13 6E

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W76-07339 9-14 6E

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Impact Sprinkler,
W76-05956 9-12 3F

Rotatable Sprinkler and Water Deflector Used Therewith,
W76-11445 9-21 3F

JOHNSON (BERNARD), INC., HOUSTON, TEX.
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JONES AND HENRY ENGINEERS, LTD., TOLEDO, OHIO.
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Supernatant Doesn't Have to Ruin Effluent Quality,
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W76-09015 9-17 5D

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W76-02445 9-05 5D

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W76-11373 9-21 5D

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W76-10069 9-19 5A

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W76-08812 9-17 4A

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W76-09509 9-18 5C

JUTE AGRICULTURAL RESEARCH INST., BARRACKPORE (INDIA). MYCOLOGY AND PLANT PATHOLOGY DIV.
Meteorological Factors and Disease Expressions in Jute,
W76-09931 9-18 3F

JYVASKYLA UNIV. (FINLAND). DEPT. OF BIOLOGY.
Influence of Effluents of Sulfite Cellulose Factory on Algae in Cultures and Receiving Waters,
W76-00045 9-01 5C

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Method for Separating Oil from Water,
W76-07445 9-14 5D

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W76-08306 9-16 2I

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Water Quality Determination Apparatus,
W76-02596 9-06 5A

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W76-12992 9-24 5C

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W76-09815 9-18 5A

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W76-06774 9-13 5A

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W76-07953 9-15 2I

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W76-10973 9-20 5B

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Method and Apparatus for Cleaning Waste Liquid Containing Diluted Dye,
W76-04065 9-09 5D

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Ion-Exchange Group Bearing Composite Membranes,
W76-08211 9-16 3A

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W76-11333 9-21 2H

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Great Plains Evapotranspiration by a Resistance Model Using Remotely Sensed Thermal Imagery,
W76-08585 9-16 2D

KANSAS LIVESTOCK ASSOCIATION, TOPEKA.
Legal Aspects of Waste Pollution Laws,
W76-03975 9-08 5G

KANSAS STATE BOARD OF HEALTH, TOPEKA.
Kansas Underground Storage Regulations.
W76-04377 9-09 5G

KANSAS STATE BOARD OF HEALTH, TOPEKA. DIV. OF ENVIORNMENTAL HEALTH.
Kansas Water Pollution Control Laws.
W76-04378 9-09 5G

KANSAS STATE BOARD OF HEALTH, TOPEKA. DIV. OF ENVIRONMENTAL HEALTH.
States Role in Formulating Control Strategy,
W76-11408 9-21 5G

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Water Drainage from Highway Fills,
W76-11762 9-22 8D

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W76-11516 9-21 3F

KANSAS STATE UNIV., MANHATTAN.
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W76-01876 9-04 5D

A Local-Structure Model for Calculation of Lattice Vibrations in Liquid Water,
W76-02512 9-06 1A

Colorimetric Determination of Cyanide, Fluoride and Sulfate in Water,
W76-02568 9-06 5A

Use of Cattle Feedlot Runoff in Crop Production,
W76-03559 9-08 3C

Analysis and Optimization of a Multi-Effect Multi-Stage Flash Distillation System,
W76-06802 9-14 3A

KANSAS STATE UNIV., MANHATTAN. COMPARATIVE TOXICOLOGY LAB.
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W76-06754 9-13 5B

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W76-00425 9-01 5B

Experience with a Spray-Runoff System for Treating Beef Cattle Feedlot Runoff.
W76-01026 9-03 5D

Disposal of Beef Feedlot Wastes onto Land,
W76-07184 9-14 5D

Samplers for Monitoring Runoff Waters,
W76-10550 9-20 5A

Performance of Feedlot Runoff Control Facilities in Kansas,
W76-11058 9-20 5D

Samplers for Monitoring Runoff Waters,
W76-13006 9-24 5A

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Summary of Kansas' Experience with Liquid Waste Spreading,
W76-03988 9-08 5E

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Effects of Application Rate in Direct Land Disposal of Animal Wastes,
W76-00443 9-01 5E

Interactions of Mercury with Aquatic and Edaphic Environments,
W76-05601 9-12 5B

Present Knowledge on the Effects of Land Application of Animal Waste,
W76-07199 9-14 5D

KANSAS STATE UNIV., MANHATTAN. DEPT. OF CHEMICAL ENGINEERING.
Motionless Mixers Improve Oxygen Transfer Efficiencies, Part I,
W76-01556 9-04 5D

Identification of Parameters in Transient Water Quality Models from Stochastic Data,
W76-07395 9-14 5G

Transport Rate of Cod Through a Wet Porous Stratum - Measurement of Diffusivity in Cattle Manure Solution,
W76-12352 9-23 5B

KANSAS STATE UNIV., MANHATTAN. DEPT. OF ELECTRICAL ENGINEERING.
A Digitized Radar for Precipitation Measurements and Applications to Hydrology,
W76-02635 9-06 2B

KANSAS STATE UNIV., MANHATTAN. DEPT. OF GEOLOGY.
The Solubility of Ferric Oxyhydroxides in Natural Waters,
W76-00011 9-01 2K

KANSAS STATE UNIV. RESEARCH FOUNDATION, MANHATTAN. (ASSIGNEE).
Demand Bactericide for Disinfecting Water and Process of Preparation,
W76-08391 9-16 5D

KANSAS UNIV./CENTER FOR RESEARCH, INC., LAWRENCE.
Spectral and Textural Processing of ERTS Imagery,
W76-02067 9-05 7C

KANSAS UNIV., LAWRENCE. DEPT. OF CIVIL ENGINEERING.
Hydraulic Design Criteria for Inland Waterways,
W76-05254 9-11 8B

Polishing Lagoon Effluents with Submerged Rock Filters,
W76-07049 9-14 5D

State of the Art of Lagoon Wastewater Treatment,
W76-07053 9-14 5D

KANSAS UNIV., LAWRENCE. DEPT. OF GEOLOGY.
Trace Element, Mineralogy, and Size Distribution of Suspended Material Samples from Selected Rivers in Eastern Kansas,
W76-05606 9-12 5B

KANSAS UNIV., LAWRENCE. DEPT. OF SYSTEMATICS AND ECOLOGY.
The Dynamics of Nutrient Limitation of Phytoplankton Algae: A Model Reconsidered,
W76-01540 9-04 2H

KANSAS UNIV., LAWRENCE. DEPT. OF ZOOLOGY.
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W76-04595 9-10 5C

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W76-13040 9-24 3D

KANSAS WATER RESOURCES RESEARCH INST., MANHATTAN.
Kansas Groundwater Policy Seminar,
W76-06154 9-13 4B

Swine Waste Digestion Enhancement with Nutrient Separation,
W76-10128 9-19 5D

KAPPALAVERKET, LIDINGO (SWEDEN).
Phosphorus Reduction with Bivalent Iron Sulfate at the Kappala Water Purification Plant, (In Swedish)
W76-12989 9-24 5D

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W76-13119 9-24 5C

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W76-06146 9-12 5C

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W76-12395 9-23 2H

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Mortality of the Early Developmental Stages of the Roach- Rutilus Rutilus (Linnaeus, 1758),
W76-12721 9-24 5C

KARLSRUBE UNIV. (WEST GERMANY). INSTITUT FUER WASSERBAU III.
Simulation as a Tool in International River Development,
W76-05757 9-12 6A

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Prediction of Flow Development on Spillways,
W76-01255 9-03 8B

Fluid-Mechanics Aspects in the Design of Sewage Outfalls into the Sea (Stroemungsmechanische Entwurfsaspekte fuer Abwassereinleitungen ins Meer),
W76-10678 9-20 5E

KARLSRUHE UNIV. (WEST GERMANY). INSTITUT FUER HYDROMECHANIK, STAUNANLAGEN UND WASSERVERSORGUNG.
Influence of Special Constructions in Regional Waste Water Systems and their Role in Mathematical Models for Planning.
W76-12545 9-23 5D

KARLSRUHE UNIV. (WEST GERMANY). INSTITUT FUER HYDROMECHANIK, STAUNANLEGEN UND WASSERVERSORGUNG.
The Solution of the Regionalization Problem by Certain Branch-and-Bound Methods,
W76-12552 9-23 5D

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Pollutional Effects of Suspended, Sedimented and Eroded Particulate Material in the Aqueous Environment,
W76-10663 9-20 5C

Models in Water Quality Planning,
W76-11882 9-22 5B

KARLSRUHE UNIV. (WEST GERMANY). INSTITUT FUER WASSERBAU III.
Accuracy of Reservoir Inflow Forecasts Based on Radar Rainfall Measurements,
W76-09574 9-18 2B

Comparison of Required Reservoir Storages Computed by the Thomas-Fiering Model and the 'Karlsruhe Model' Type A and B,
W76-12832 9-24 4A

KARNATAKA REGIONAL ENGINEERING COLL., SURATKAL (INDIA).
Adsorption Mechanism of Sulfides at a Platinum-Solution Interface,
W76-10636 9-20 5D

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How Much Precipitation Goes to Infiltration During a Storm Period,
W76-08339 9-16 2A

KASPIISKII NAUCHNO-ISELEDOVATELSKII INSTITUT RYNOGO KHOZYAISTVA, ASTRAKHAN (USSR).
Increase of Primary Production in a Bay of Malyi Zhemchuzhnyi Island (North Caspian) Using Inorganic Fertilizers, (In Russian),
W76-11553 9-21 5C

KASPIISKII NAUCHNO-ISSLEDOVATELSKII INSTITUT RYBNOGO KHOZYAISTVA, ASTRAKHAN (USSR).
Accumulation of Cs137 by Industrial Fish Species in the Casplan Sea,
W76-06891 9-14 5C

Natural Reproduction of the White Amur in Bodies of Water of the Lower Volga, (In Russian),
W76-07295 9-14 8I

Age Composition and Growth of Aspius Aspius (L.) in the Lower Volga, (In Russian),
W76-08255 9-16 2I

Ecology and Prospects of Using the Amphipod Gammarus (R.) Balcanicus Schaef, (In Russian),
W76-08410 9-16 2I

Content of Some Trace Elements in Macrophytes of the Volga Delta, (In Russian),
W76-13194 9-24 5A

KASPIISKII NAUCHNO-ISSLEDOVATELSKII INSTITUT RYBNOGO KHOZYAISTVA, MAKHACHKALA (USSR).
Zooplankton of some Inland Waters of the Dagestan Assr., (in Russian),
W76-05444 9-11 2H

Phytoplankton of Some Ponds and Lakes of Dagestan ASSR, (In Russian),
W76-07311 9-14 5C

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W76-04532 9-10 5C

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Method and Apparatus for Detecting the Degree of Contamination of Waste Water,
W76-03014 9-07 5A

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Hydraulics of Shallow Wells in Hard Rocks,
W76-00404 9-01 8B

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Oxygen Pulp Bleaching Cuts Waste Effluents,
W76-02805 9-06 5D

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W76-06876 9-14 5C

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W76-09095 9-17 2I

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W76-09928 9-18 5A

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W76-01752 9-04 2H

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W76-07935 9-15 5C

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W76-09886 9-18 5B

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The Size and Shape of Small-Scale Current Ripples: An Experimental Study Using Medium Sand,
W76-03854 9-08 2J

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Marine Discharge Control Apparatus and Method for Treating Fluids on a Marine Vessel,
W76-06483 9-13 5G

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Living Filter Perks up Regional System,
W76-12607 9-23 5D

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W76-05312 9-11 5D

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W76-05347 9-11 3A

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W76-05528 9-12 5D

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W76-03917 9-08 5G

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A Spectrophotometric Method for the Determination of Rhenium in Geologic Materials,
W76-02896 9-06 5A

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Economic Benefits of Potable Water Supplie in Rural Areas of Developing Countries,
W76-06230 9-13 6

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A Comparison of Phosphorus and Water Cor tributions by Snowfall and Rain in Northea Ohio,
W76-11858 9-22 5

KENTUCKY AGRICULTURAL EXPERIMENT STATION, LEXINGTON.
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W76-05361 9-11 6

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Diffusion and Mass Flow of Nitrate-Nitroge to Plant Roots,
W76-10182 9-19 2C

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Reservoir Effects on Property Values Accord ing to Location and Rural VS. Urban Use,
W76-11708 9-22 4A

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Critical Waste Problems Ahead,
W76-04423 9-09 5E

Legal Institutions for the Allocation of Water and Their Impact on Coal Conversion Operations in Kentucky,
W76-11489 9-21 6E

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National Symposium on Urban Rainfall and Runoff and Sediment Control,
W76-09729 9-18 4C

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Upward Water Movement in Field Cores,
W76-01068 9-03 3F

Using Parametric Models of Runoff to Improve Parameter Estimates for Stochastic Models,
W76-05911 9-12 2E

Evaluation of a Monthly Water Yield Model,
W76-09246 9-17 2A

Upward Water Movement in Field Cores,
W76-09726 9-18 3F

Overview of Rainfall-Runoff Process in Urban Areas,
W76-09730 9-18 2A

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Precipitate Flotation of Calcium Sulfite from Dilute Aqueous Solution with an Anionic Surfactant,
W76-10631 9-20 5D

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The Large-Scale Regional Plant Hypothesis: Discriminant Analysis,
W76-05267 9-11 5G

KENTUCKY UNIV., LEXINGTON. DEPT. OF ELECTRICAL ENGINEERING.
Detection of Salts of 2,4-D in Aqueous Solution by Laser Raman Spectroscopy,
W76-08254 9-16 5A

KENTUCKY UNIV., LEXINGTON. INST. FOR MINING AND MINERALS RESEARCH.
The Role of Environmental Data Banks in Energy Resource Development,
W76-11609 9-21 5G

KENTUCKY UNIV., LEXINGTON. SCHOOL OF BIOLOGICAL SCIENCES.
Responses of Astragalus Tennesseensis to Drought: Changes in Free Amino Acids and Amides During Water Stress and Possible Ecological Significance,
W76-07397 9-14 2I

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Tertiary Treatment of Wastewater Using Oxidation Ponds,
W76-03138 9-07 5D

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Response of Saturated Sands to Cyclic Shear at Farthquake Amplitudes,
W76-01814 9-04 8D

Analysis of the Sediment Filtering Action of Grassed Media,
W76-04009 9-09 4D

Sensitivity of Vertebrate Embryos to Heavy Metals as a Criterion of Water Quality, Phase III, Use of Fish and Amphibian Eggs and Embryos as Bioindicator Organisms for Evaluating Water Quality,
W76-05014 9-11 5C

Rural Residential Water Demand in Kentucky: An Econometric and Simulation Analysis,
W76-05252 9-11 6D

Supply and Demand in Water Planning: Streamflow Estimation and Conservational Water Pricing,
W76-05607 9-12 6D

Hydrodynamic Separation of Solids from Solid-Liquid Mixtures,
W76-09716 9-18 5D

KER, PRIESTMAN AND ASSOCIATES, LTD., VICTORIA, (BRITISH COLUMBIA).
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W76-06954 9-14 5G

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W76-00722 9-02 5A

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W76-09499 9-18 5A

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W76-09502 9-18 5A

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W76-08868 9-17 5B

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Method for Collecting Scale Formations in Water Pipes,
W76-06479 9-13 8G

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W76-07271 9-14 2I

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W76-06139 9-12 5B

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W76-02509 9-06 5E

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W76-13140 9-24 5A

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W76-01941 9-04 5C

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W76-03374 9-07 2L

The Plankton Tower. I. A Structure to Study Water/Sediment Interactions in Enclosed Water Columns,
W76-08446 9-16 5C

The Plankton Tower. II. Release of Nutrients from Sediments Due to Changes in the Density of Bottom Water,
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W76-10408 9-19 5B

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On the Influence of Sewage Pollution on Inshore Benthic Communities in the South of Kiel Bay. Part I. Qualitative Studies on Indicator Species and Communities,
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On the Ecology of Collembola and Oribatids in a Landsea Transition Zone (Collembola, Insecta-Oribatei, Acari) (In German),
W76-09635 9-18 2L

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W76-09620 9-18 5A

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W76-12355 9-23 5C

Hygienic Evaluation of Potatoes Grown in Soil Irrigated with Effluents from Coking and Chemical Plants of the Donets Coal Basin, (In Russian),
W76-12369 9-23 5C

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W76-02951 9-06 4A

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W76-10351 9-19 5C

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W76-11528 9-21 5C

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W76-12306 9-23 5C

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W76-12496 9-23 5D

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W76-12499 9-23 5D

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W76-03078 9-07 5D

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W76-07332 9-14 6E

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W76-05633 9-12 5C

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W76-09810 9-18 3F

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W76-00599 9-02 2K

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W76-05586 9-12 5D

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W76-12559 9-23 6A

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W76-04055 9-09 5D

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W76-11250 9-21 5F

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W76-09088 9-17 2I

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Estimating Indirect Cost of Urban Water Use,
W76-00630 9-02 3D

Estimating Indirect Cost of Urban Water Use,
W76-06615 9-13 6C

KOEHLER-DAYTON, INC., DAYTON, OHIO. (ASSIGNEE).
Microwave Sewage System With Distillation Means,
W76-00800 9-02 5D

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Sewage Treatment System,
W76-09854 9-18 5D

Recirculating Sewerage System,
W76-10209 9-19 5D

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Autogenus Incineration of Sewage Sludge now Possible,
W76-00219 9-01 5D

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W76-08042 9-15 2H

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Erosion and Transport of Bed-Load Sediment,
W76-12827 9-24 2J

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W76-04080 9-09 5D

KRAMER, CHIN AND MAYO, INC., SEATTLE, WASH.
Simple Flume for Guidance and Impingement Studies,
W76-07213 9-14 8I

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W76-08655 9-16 8I

Development of Biological Design Criteria for Fish Screens and Barriers,
W76-08662 9-16 8I

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W76-07711 9-15 5G

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Water Quality Management and Information Systems,
W76-01508 9-04 5G

Application of Multigoal Water Quality Planning Model,
W76-01616 9-04 5G

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Implementation of a N. P. D. E. S. Da Management System,
W76-01502 9-04 5

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W76-11182 9-21 5

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Water Pollution from Agriculture,
W76-01162 9-03 5

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New Plant Solves Seasonal Problem,
W76-03716 9-08 5

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W76-02612 9-06 5

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W76-07024 9-14 5B

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W76-02811 9-06 5D

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W76-00334 9-01 5A

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W76-09769 9-18 5G

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W76-10681 9-20 8C

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W76-05635 9-12 5C

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W76-06690 9-13 2L

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Investigations into the Yield of an Existing Surface Reservoir and Aquifer System,
W76-09631 9-18 3B

LANCASTER UNIV., BAILRIGG (ENGLAND). DEPT. OF BIOLOGICAL SCIENCES.
Detection and Preliminary Identification of Endogenous Antitranspirants in Water-Stressed Sorghum Plants,
W76-06026 9-12 2I

LANCHESTER POLYTECHNIC, COVENTRY (ENGLAND).
Complex Width-Discharge Relations in Natural River Sections,
W76-08735 9-16 2E

Channel Width and the Riffle-Pool Sequence,
W76-10924 9-20 2E

LANCHESTER POLYTECHNIC, COVENTRY (ENGLAND), DEPT. OF CIVIL ENGINEERING.
Numerical Computation of Two-Dimensional Flows,
W76-08341 9-16 2L

LANCY LABS., INC., ZELIENOPLE, PA.
Pilot Plant Optimization of phosphoric Acid Recovery Process,
W76-00676 9-02 5D

LANCY LABS. LTD., CRAWLEY (ENGLAND).
Effluent Problems and Material Recovery in the Electroplating Industry.
W76-04775 9-10 5D

LANCY LABS., ZELIENOPLE, PA.
Water Pollution Abatement Technology: Capabilities and Costs, Metal Finishing Industry,
W76-10555 9-20 5D

LANDESUNTERSUCHUNGSAMT FUER DAS GESUNDHEITSWESEN SUEDBAYERN, MUNICH (WEST GERMANY).
Experience with a Pilot Plant for the Irradiation of Sewage Sludge, Experiments on the Inactivation of Viruses in Sewage Sludge after Radiation Treatment,
W76-09549 9-18 5D

LANGKAER VAENGE, COPENHAGEN (DENMARK).
Ammonia Removal by Use of Clinoptilolite,
W76-09180 9-17 5D

LANGLEY HILL QUARRY, WOODSIDE, CALIF. (ASSIGNEE).
Sewage Septic System for a Plurality of Drain Fields,
W76-09430 9-18 5D

LAS CRUCES WATER QUALITY LAB., N. MEX.
How to Build a Better Bench Sheet,
W76-09701 9-18 5D

LATVIAN SCIENTIFIC RESEARCH INST. OF HYDRAULIC ENGINEERING AND RECLAMATION, JELGANA (USSR).
Flood Routing in Channel Systems with Allowance for Bank Regulation,
W76-05668 9-12 4A

LAVAL UNIV., QUEBEC. CENTRE D'ETUDES NORDIQUES.
Zonation of Snow Conditions in Forest-Tundra, Hudson Bay, New Quebec, (In French),
W76-08759 9-17 2C

LAVAL UNIV., QUEBEC. DEPARTEMENT DE BIOLOGIE.
Penetration of the Deep Layer of the Saguenay Fjord by Surface Waters of the St. Lawrence Estuary,
W76-06674 9-13 2L

LAVAL UNIV., QUEBEC. DEPARTEMENT DES VIVRES.
Degree of Pollution of the Saint Lawrence River from Repentigny to Montmagny, (In French),
W76-06734 9-13 5B

Degree of Pollution of the Saint Lawrence River from Repentigny to Montmagny: II. Biochemical Pollution, (In French),
W76-06735 9-13 5B

LAVAL UNIV., QUEBEC. DEPT. OF CIVIL ENGINEERING.
Effects of Structures on Irregular Waves Compared to Regular Waves,
W76-03119 9-07 8B

Study of Coagulation of Water by Fluorometry (Etude de la Coagulation des eaux par fluorometrie),
W76-03239 9-07 5F

Principle of Management of Degenerated Inlets and Estuaries,
W76-09958 9-18 8B

Simulation of the Salinity Distribution in the St. Lawrence Estuary by a Two-Dimensional Mathematical Model,
W76-10443 9-19 5B

LAVAL UNIV., QUEBEC. DEPT. OF PHYTOTECHNIE.
Effects of Water Stress on Leaf Respiration, Transpiration Rates in the Dark and Cuticular Resistance to Water Vapor Diffusion of Two Corn Inbreds,
W76-06266 9-13 2D

LAVAL UNIV., QUEBEC. LAB. OF ICE MECHANICS.
Pressures of Thermal Origin Exerted by Ice Sheets upon Hydraulic Structures,
W76-11750 9-22 2C

LAW OF THE SEA CONFERENCE, NEW YORK.
The Law of the Sea at the Caracas Session: A Brief Evaluation,
W76-10732 9-20 6E

LAWLER, MATUSKY AND SKELLY ENGINEERS, TAPPAN, N.Y.
Hudson River Striped Bass Life Cycle Model,
W76-08634 9-16 5C

LAWRENCE EXPERIMENT STATION, MASS.
Equilibria in Aqueous Solutions of Chlorinated Isocyanurate,
W76-00116 9-01 5F

LAYNE ATLANTIC CO., NORFOLK, VA. WATER RESOURCES DIV.
Techniques of Shallow Well Drilling,
W76-08891 9-17 8B

LEAGUE OF WOMEN VOTERS, WASHINGTON, D.C.
The Role of Social Scientists in the Determination of the Social Well-Being and Quality of Life Dimension in Water Resources,
W76-05357 9-11 6B

LEANCO CORP., BROWNWOOD, TEX.
Managing a Successful Liquid Swine Manure Management System,
W76-07180 9-14 5D

LEEDS, HILL, AND JEWETT, INC., SAN FRANCISCO, CALIF.
Flow Interference Effects at Fracture Intersections,
W76-08335 9-16 2F

LEEDS UNIV. (ENGLAND). WELLCOME MARINE LAB.
The Combined Effects of High Salinity and Temperature on the Survival of Young Limanda Limanda,
W76-06148 9-12 5C

Incidence of Polychlorinated Biphenyls in Clyde Seaweed,
W76-11810 9-22 5C

LEEDS UNIV. (SCOTLAND). INST. FOR TRANSPORT STUDIES.
An Evaluation of Cost-Benefit Analysis Criteria,
W76-06227 9-13 6B

LEHIGH-NORTHAMPTON COUNTIES JOINT PLANNING COMMISSION, LEHIGH VALLEY, PA.
Privately-Owned Water Supply Systems,
W76-01366 9-03 3D

Annual Report 1974.
W76-06572 9-13 6B

Water Supply and Sewage Facilities Plan Update - 1970 (1974 Supplement),
W76-10508 9-20 5G

LEHIGH UNIV., BETHLEHEM. DEPT. OF CIVIL ENGINEERING.
Performance of Pennsylvania Highwa Drainage Inlets,
W76-03750 9-08 8

LEHIGH UNIV., BETHLEHEM, PA.
Bulk Density-Water Content Relationship i Marine Silts and Clays,
W76-11771 9-22 2

LEHIGH UNIV., BETHLEHEM, PA. DEPT. OF CIVIL ENGINEERING.
Biological Regeneration of Activated Carbon i Advanced Wastewater Treatment,
W76-01684 9-04 5I

LEHIGH UNIV. BETHLEHEM, PA. DEPT. OF ECONOMICS.
An Optimization Model for Regional Wate Quality Management,
W76-08104 9-16 5C

LEHIGH UNIV., BETHLEHEM, PA. INST. FOR PATHOLOGY; AND LEHIGH UNIV., BETHLEHEM, PA. CENTER FOR HEALTH SCIENCES.
Does Copper Cause Anemia in Biomphalari Glabrata,
W76-08455 9-16 5C

LEIDEN RIJKSHERBARIUM (NETHERLANDS).
The Algae of Saline Areas Near Vlissinger (The Netherlands),
W76-01173 9-03 5C

LEIPZIG UNIV. (EAST GERMANY). BEREICH PFLANZENPHYSIOLOGISCHE MIKROBIOLOGIE.
The Effect of Silicon Oils on the Water Loss of Hordeum Vulgare L, (In German),
W76-09806 9-18 3B

LEKANDERS INGENJOERSBYRA A.B. ALINGAS (SWEDEN).
Pollution Free Mills: Facts and Visions,
W76-02303 9-05 5D

LENARD ENGINEERING, STORRS, CONN.
Stop Leachate Problems,
W76-03525 9-08 5B

LENINGRAD INST. OF HEMATOLOGY AND BLOOD TRANSFUSION (USSR).
Structure of Water in the Cell: Review of the Literature, (In Russian),
W76-10974 9-20 1A

LENINGRAD STATE MEDICAL INST. OF SANITATION AND HYGIENE.
Sanitary Inspection of Surface Waters Polluted with Aromatic Amino and Nitro-Compounds, (In Russian),
W76-09798 9-18 5A

LENINGRAD STATE PEDAGOGICAL INST. (USSR). DEPT. OF BOTANY.
Effect of Excess Soil Moisture on the Content of Phosphorus Compounds in Barley, (In Russian),
W76-09913 9-18 3F

LENINGRAD STATE UNIV. (USSR).
Associations of Blue-Green Algae of Thermal Springs of Stravropol and Krasnodar Krais and Georgian SSR, (In Russian),
W76-06769 9-13 5C

Use of Cover Crops in Orchards in Connection with the Problem of Water Accumulation in Soils, (In Russian),
W76-07268 9-14 3F

Algal Flora of Upper Istisu Hot Springs, (In Russian),
W76-07985 9-15 5C

Diatoms of Some Mineral and Thermal Springs in the Caucasus, (In Russian),
W76-07986 9-15 2I

The Qualitative Organic Matter Composition of Some Marshy Soils of Nizhnevelikoretsk Plain, (In Russian),
W76-09888 9-18 2G

LENINGRAD STATE UNIV. (USSR). INST. OF NUCLEAR PHYSICS.
Analysis of Sulfur-Containing Products Accumulated by Chlorella Mutants,
W76-05476 9-11 5C

LENINGRADSKAYA LESTEKHICHESKAYA AKADEMIYA (USSR).
Phenols -- Products of Lignin Degradation -- in Effluents of the Baikal Pulp and Paper Mill (Fenoli -- produkty razrusheniya lignina -- v stochnykh vodakh Baikal'-skogo tsellyuloznogo zavoda),
W76-09281 9-17 5A

LETHBRIDGE UNIV. (ALBERTA). DEPT. OF GEOGRAPHY.
Sublimation or Melting: Observations from the White Mountains, California and Nevada, U.S.A.,
W76-05683 9-12 2C

LEWIS AND CLARK COLL., PORTLAND, OREG. NORTHWESTERN SCHOOL OF LAW.
Wetland's Reluctant Champion: The Corps Takes a Fresh Look at 'Navigable Waters',
W76-11976 9-22 4A

LEWIS UNIV., LOCKPORT, ILL. COLL. OF LAW.
State Responsibility and the Law of International Watercourses,
W76-07811 9-15 6E

LIEGE UNIV. (BELGIUM). DEPT. OF BOTANY.
The Benthic Algal Vegetation of the Belgian Part of the River Meuse and Its Relations with Water Pollution, (In French),
W76-07291 9-14 5C

The Aquatic and Subaquatic Bryophytic Vegetation of the Belgian Part of the River Sambre, Related to Ecological Conditions and Water Pollution, (In French),
W76-09986 9-18 5C

LIEGE UNIV. (BELGIUM). INSTITUT DE MATHEMATIQUE.
The Influence of the 'Tidal Stress' on the Residual Circulation: Application to the Southern Bight of the North Sea,
W76-04969 9-10 2L

An Interdisciplinary Mathematical Model Applied to the Southern Bight of the North Sea,
W76-12518 9-23 5B

LIEGE UNIV. (BELGIUM) INSTITUT OF MATHEMATIQUE.
A Model of Patchiness for Prey-Predator Plankton Populations,
W76-11878 9-22 5C

LIFE SYSTEMS, INC., CLEVELAND, OHIO.
Development of Instrumentation for a Water Processing Element,
W76-11666 9-22 5D

LILY (ELI) AND CO., GREENFIELD, IND. GREENFIELD LABS.
Treatment of Animal Wastes at the Greenfield Laboratories of Eli Lilly and Company,
W76-00464 9-01 5D

LIMNETICS, INC., MILWAUKEE, WIS.
Comparative Atomic Absorption Spectroscopic Study of Trace Metals in Lake Water,
W76-02511 9-06 5A

Comparative Atomic Absorption Spectroscopic Study of Trace Metals in Lake Water,
W76-05051 9-11 5A

LIMNOLOGICHESKII INSTITUT, IRKUTSK (USSR). TRANSBAIK COMPLEX EXPED.
Seasonal and Interannual Changes in the Number of Bacteria in the Ivan-Arakhlei Lakes (Transbaikalia), (In Russian),
W76-04573 9-10 5C

LINCOLN COLL. (NEW ZEALAND). DEPT. OF PLANT SCIENCE.
The Relationship Between Solar Radiation, Soil Water, and Water Potential of Ears of Wheat,
W76-00150 9-01 3F

Effects of Irrigation and Fertiliser on the Yields of 'Arawa', 'Aotea', and 'Karamu' Wheats,
W76-00151 9-01 3F

An Analysis of a Nitrogen-Induced Depression of Yield in Irrigated 'Kopara' Wheat,
W76-00152 9-01 3F

LINCOLN COLL. (NEW ZEALAND). TUSSOCK GRASSLANDS AND MOUNTAIN LANDS INST.
Solar Heating to Prevent Freezing in Recording Raingauges,
W76-03857 9-08 2B

LINDLEY AND SONS, INC., HINSDALE, ILL.
Municipal Storm Water Management Programs,
W76-09751 9-18 4A

LINDSAY MFG CO., NEBR. (ASSIGNEE)
Corner Irrigation Machine,
W76-04267 9-09 3F

LIPTAK ASSOCIATES, STAMFORD, CONN.
Higher Profits Via Advanced Instrumentation,
W76-00635 9-02 5D

LITTLE (ARTHUR D.), INC., CAMBRIDGE, MASS.
Identification of Objectionable Environmental Conditions and Issues Associated with Confined Disposal Areas,
W76-00516 9-02 5B

Appendices to: Survey Study to Select a Limited Number of Hazardous Materials to Define Amelioration Requirements,
W76-01902 9-04 5A

Chris Appendixes I-VI. (Preliminary Systems Development-Chemical Hazards Response Information System-Chris)
W76-02552 9-06 5A

Economic Analysis of Effluent Guidelines for the Asbestos Industry,
W76-06626 9-13 5G

Economic Analysis of Effluent Guidelines. The Nonferrous Metals Industry (Aluminum),
W76-06627 9-13 5G

The Behavior of Large, Low-Surface-Tension Water Drops Falling at Terminal Velocity in Air,
W76-07560 9-15 2B

Chemical Impact of Snow Dumping Practices,
W76-10049 9-19 5C

Decision Mapping - Tool for Underground Waste Management,
W76-11063 9-20 5B

LITTLE (ARTHUR D.), INC., SAN FRANCISCO, CALIF.
Water Pollution Control Act of 1972, Regional Impacts, San Francisco Bay/Central Valley, (Volume I),
W76-10572 9-20 5G

Water Pollution Control Act of 1972, Regional Impacts, San Francisco Bay/Central Valley, (Volume II),
W76-10573 9-20 5G

LIVERPOOL POLYTECHNIC (ENGLAND). DEPT. OF BIOLOGY.
Diatom Community Response to Variations in Effluent Concentration,
W76-08835 9-17 5C

LIVERPOOL UNIV. (ENGLAND). DEPT. OF BOTANY.
Leaching Losses of Ammonium and Nitrate in the Reclamation of Sand Spoils in Cornwall,
W76-08760 9-17 3C

LIVERPOOL UNIV. (ENGLAND). DEPT. OF OCEANOGRAPHY.
The Use of Gel Filtration in the Study of Metal Binding by Humic Acids and Related Compounds,
W76-03301 9-07 5A

LIVERPOOL UNIV. (ENGLAND). MARINE TRANSPORT CENTRE.
Pre-Investment in Port Facilities,
W76-06236 9-13 6C

LIVERPOOL UNIV., PORT ERIN (ENGLAND). DEPT. OF MARINE BIOLOGY.
Effects of Copper on Survival and Osmoregulation in Marine and Brackish Water Isopods (Crustacea),
W76-12333 9-23 5C

LJUBLIJANA UNIV. (YUGOSLAVIA). INSTITUT MIKROBIOLOGICHESKII.
Is the Examination of Drinkable Water and Swimming Pools on Presence of Enteropathogenic E. Coli Necessary, (In German),
W76-09785 9-18 5C

LOBLE, PICOTTE AND PAULY, HELENA, MONT.
Interstate Water Compacts and Mineral Development,
W76-11977 9-22 3E

LOCKHEED AIRCRAFT SERVICE CO., ONTARIO CALIF. DEPT. OF MARINE BIOLOGY.
Heat Treatment for the Control of Marine Fouling at Coastal Electric Generating Stations,
W76-04916 9-10 5C

LOCKHEED MISSILES AND SPACE CO., SUNNYVALE, CALIF.
Lockheed Missiles and Space Company Conceptual Design of a 50 MGD Desalination Plant.
W76-00166 9-01 3A

LOCKWOOD GREENE ENGINEERS, INC., SPARTANBURG, S. C.
Water Pollution Abatement Technology, Capabilities and Costs, Textile Industry.
W76-08186 9-16 5G

LOCTITE (IRELAND) LTD, DUBLIN. (ASSIGNEE).
Treatment of Floating Pollutants,
W76-03508 9-08 5G

LOMA LINDA UNIV., CALIF. DEPT. OF BIOLOGY.
Effect of Temperature and Temperature Adaptation on Calcification Rate in the Hermatypic Coral Pocillopora Damicornis,
W76-10059 9-19 5C

LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE (ENGLAND).
Water Management and Pricing Policies in England and Wales,
W76-01356 9-03 6B

LONDON UNIV. (ENGLAND).
Beach-Offshore Dredging: Some Environmental Consequences,
W76-09335 9-17 5G

The Freedom of Navigation Under International Law,
W76-12009 9-22 6E

LONDON UNIV. (ENGLAND). DEPT. OF ZOOLOGY AND COMPARATIVE PHYSIOLOGY.
On the Relationship Between Oxygen Consumption and Feeding Level in Decapods,
W76-10072 9-19 5C

LONG ISLAND UNIV., GREENVALE, N. Y.
An Interdisciplinary Study of the Estuarine and Coastal Oceanography of Block Island Sound and Adjacent New York Coastal Waters,
W76-02050 9-05 7B

LONGVIEW FIBRE CO., WASH.
UNOX Secondary Sludge Dewatering Studies at Longview Fibre Company,
W76-11381 9-21 5D

Handling and Disposal of Bleach Plant Effluents,
W76-11383 9-21 5D

LOS ALAMOS SCIENCE LAB., N. MEX.
Distribution of Plutonium in Soil Particle Size Fractions of Liquid Effluent-Receiving Areas at Los Alamos,
W76-08160 9-16 5B

LOS ALAMOS SCIENTIFIC LAB., LOS ALAMOS, N.MEX.
Determination of Uranium in Natural Waters by Neutron Activation Analysis,
W76-11398 9-21 5A

LOS ALAMOS SCIENTIFIC LAB., N. MEX.
Evaluation of Yield and Water-Level Relations,
W76-04837 9-10 4D

Water Quality in Vicinity of Fenton Hill Site, 1974,
W76-06909 9-14 5B

LOS ALAMOS SCIENTIFIC LAB., N. MEX. HEALTH DIV.; AND LOS ALAMOS SCIENTIFIC LAB., N. MEX. BIO-ANALYSIS AND CHEMICAL SECTION.
The Preservation and Storage of Urine Samples for the Determination of Mercury,
W76-07959 9-15 5A

LOS ANGELES CITY DEPT. OF WATER AND POWER. AQUEDUCT DIV.
Underground Storage of State Water Project Supply, A Progress Report,
W76-11119 9-21 4B

LOS ANGELES COUNTY ENGINEER DEPT., LOS ANGELES, CALIF.
Apollo County Park Wastewater Reclamation Project. Antelope Valley, California,
W76-12864 9-24 5D

LOS ANGELES COUNTY SANITATION DISTRICTS, WHITTIER, CALIF.
State of the Technology Semi-Automatic Control of Activated Sludge Treatement Plants.
W76-12860 9-24 5D

LOS ANGELES DEPT. OF PUBLIC WORKS, CALIF.
Clean Air Equals Dirty Water,
W76-07228 9-14 5G

LOS ANGELES MEMORIAL COLISEUM AND SPORTS ARENA, CALIF.
Water Flow Binding. Try Relining,
W76-08013 9-15 5F

LOTHIAN REGIONAL COUNCIL (SCOTLAND).
Development of Edinburgh's Sewage Disposal Scheme,
W76-09707 9-18 5D

LOUGHBOROUGH UNIV. OF TECHNOLOGY (ENGLAND). DEPT. OF CHEMICAL ENGINEERING.
A New Approach to the Design of Filtration Systems,
W76-12642 9-23 5D

LOUGHBOROUGH UNIV. OF TECHNOLOGY (ENGLAND). DEPT. OF CIVIL ENGINEERING.
A Study of Rotating-Disc Treatment Units Operating at Different Temperatures,
W76-09674 9-18 5D

LOUIS RECORDS AND ASSOCIATES INC., LAFAYETTE, LA.
Run Drill Pipe Slower and Reduce Formation Damage,
W76-10097 9-19 8G

LOUIS SCHLEIFFER A. G., FELDBACH (SWITZERLAND). (ASSIGNEE).
Apparatus for the Separation of Liquid Mixtures My Means of Permeability Selective Separation Membranes,
W76-05991 9-12 3A

LOUISIANA AGRICULTURAL EXPERIMENT STATION, BATON ROUGE.
Use of Waterhyacinths to Remove Nitrogen and Phosphorus from Eutrophic Waters,
W76-01148 9-03 5C

LOUISIANA DEPT. OF HIGHWAYS, BATON ROUGE. RESEARCH AND DEVELOPMENT SECTION.
Erosion Evaluation Study,
W76-01829 9-04 2J

LOUISIANA STATE UNIV., BATON ROUGE.
Fresh Water Can be Stored in Saline Aquifers,
W76-10107 9-19 4B

LOUISIANA STATE UNIV., BATON ROUGE. CENTER FOR WETLANDS RESOURCES; AND LOUISIANA STATE UNIV., BATON ROUGE. COASTAL STUDIES INST.
Morphology of an Arctic River Bar,
W76-01319 9-03 2C

LOUISIANA STATE UNIV., BATON ROUGE. COASTAL STUDIES INST.
Multiple Offshore Bars and Standing Waves,
W76-01298 9-03 2J

Mississippi River Mouth Processes: Effluent Dynamics and Morphologic Development,
W76-01321 9-03 2J

Mass Movement of Mississippi River Delta Sediments,
W76-01322 9-03 2J

Freezeup Processes on Arctic Beaches,
W76-02551 9-06 2C

Wind and Current Effects on Large-Scale Oil Slicks,
W76-09310 9-17 5C

Offshore Bars Along the Alaskan Arctic Coast,
W76-11873 9-22 2J

LOUISIANA STATE UNIV., BATON ROUGE, DEPT. OF CHEMICAL ENGINEERING.
Development of a Three-Dimensional Time-Dependent Flow Field Model,
W76-08328 9-16 2L

LOUISIANA STATE UNIV., BATON ROUGE. DEPT. OF GEOGRAPHY AND ANTHROPOLOGY.
The Colville River and the Beaufort Sea: Some Interactions,
W76-11767 9-22 2L

LOUISIANA STATE UNIV., BATON ROUGE. DEPT. OF GEOGRAPHY AND ANTHROPOLOGY; AND LOUISIANA STATE UNIV., BATON ROUGE. COASTAL STUDIES INST.
Changes Occurring in the Oceanic Portion of the Colville River Delta, Alaska, During Spring Flooding,
W76-12997 9-24 2C

LOUISIANA STATE UNIV., BATON ROUGE. DEPT. OF GEOLOGY.
A Nonsteady State Method for Determining Diffusion Coefficients in Porous Media,
W76-04942 9-10 2F

LOUISIANA STATE UNIV., BATON ROUGE. DEPT. OF PETROLEUM ENGINEERING.
Cyclic Storage of Fresh Water in Saline Aquifers,
W76-01811 9-04 4B

LOUISIANA STATE UNIV., BATON ROUGE. DIV. OF ENGINEERING RESEARCH.
Geomorphic Processes Active in the Southwestern Louisiana Canal, Lafourche Parish, Louisiana,
W76-02930 9-06 2J

Summary of Research in Engineering (Completed and in Progress), 1973-1974.
W76-07787 9-15 9A

LOUISIANA STATE UNIV., BATON ROUGE, LA. DEPT. OF CHEMISTRY.
The Determination and Identification of Molecular Lead Pollutants in the Atmosphere,
W76-02881 9-06 5A

LOUISIANA STATE UNIV., BATON ROUGE. LAW SCHOOL.
Coastal Zone Management and Intergovernmental Coordination,
W76-06057 9-12 6E

Legal Aspects of Limited Entry for Commercial Marine Fisheries,
W76-06821 9-14 6E

Alternative Approaches to Order: Treaty and Non-Treaty Approaches to Order in the World Ocean,
W76-07340 9-14 6E

OUISIANA STATE UNIV., BATON ROUGE. HOOL OF FORESTRY AND WILDLIFE ANAGEMENT.
Raceways: Exotic Species Most Affected by Proposed E.P.A. Discharge Permits,
W76-03980 9-08 5G

OUISIANA STATE UNIV., BATON ROUGE. A GRANT LEGAL PROGRAM.
Achieving Federal-State Coordination in Coastal Resources Management,
W76-07359 9-14 6E

OUISIANA STATE UNIV. LAW CENTER, ATON ROUGE.
International Fisheries Management Without Global Agreement: United States Policies and Their Impact on the Soviet Union,
W76-12008 9-22 6E

OUISIANA STATE UNIV. LAW CENTER, ATON ROUGE. OFFICE OF SEA GRANT EVELOPMENT.
Deepwater Port Act of 1974.
W76-04644 9-10 5G

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Notes on the Spawning of Blue and Channel Catfish in Brackish Water Ponds,
W76-04592 9-10 5C

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A Study of the Fauna in Dredged Canals of Coastal Louisiana,
W76-07486 9-15 5C

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Distribution of Nutrients in Louisiana's Coastal Waters Influenced by the Mississippi River,
W76-05259 9-11 5B

Effects of 1973 River Flood Waters on Brown Shrimp in Louisiana Estuaries,
W76-12693 9-24 5C

OUISVILLE UNIV., KY.
The Harvesting of Algae as a Food Source from Wastewater Using Natural and Induced Flocculation Techniques,
W76-03571 9-08 5D

OUISVILLE UNIV., KY. DEPT. OF BIOLOGY.
Effects of Petroleum Pollutants on Arctic Microbial Populations,
W76-09909 9-18 5C

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Refuse into Power,
W76-08693 9-16 5D

OUVAIN UNIV. (BELGIUM).
Stability Analysis of an Effluent Charge and the 'Polluters Pay' Principle,
W76-06623 9-13 5G

LOUVAIN UNIV. (BELGIUM). DEPARTEMENT DE NEUROPATHOLOGIE.
Detection of Zinc in Champy-Maillet's Histological Stain by Electron Probe Analysis,
W76-02891 9-06 5A

LOUVAIN UNIV. (BELGIUM). DEPARTMENT DE GENIE RURAL.
Experimental Investigation of the Diffusivity Coefficient,
W76-04305 9-09 2G

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Physical Interpretation of the Diffusion Equation Parameters According to Markov's Stochastic Processes Theory,
W76-01851 9-04 2G

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Cost Functions for Wastewater Conveyance Systems,
W76-12513 9-23 5D

LOUVAIN UNIV. (BELGIUM). LABORATOIRE D'ECOLOGIE VEGETALE.
Hydratability as a Parameter of Plant Water Potential, (In French),
W76-09918 9-18 2I

LOUVAIN UNIV. (BELGIUM). LABORATORIE DE HYGIENE; AND LOUVAIN UNIV. (BELGIUM). SCHOOL OF PUBLIC HEALTH.
The Effect of Thermal Pollution on the Distribution of Naegleri Fowleri,
W76-08930 9-17 5C

LOUVAIN UNIV. (BELGIUM). LABORATORIUM VOOR SEDIMENTOLOGIE.
An Evaluation of CM Patterns for Grain-Size Studies of Fine Grained Sediments,
W76-03855 9-08 2J

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Construction of a Spill Channel and Experimental Determination of Spill Spreading Rates of Four Non-Hazardous Chemicals on Water.
W76-01320 9-03 8B

LOYOLA UNIV., LOS ANGELES, CALIF. DEPT. OF CIVIL ENGINEERING.
Water Quality Modeling of Deep Reservoirs,
W76-04552 9-10 5B

LUBRIZOL CORP., DEER PARK, TEX.
Rotary Drum Vacuum Filtration for Chemical/Biological Sludge,
W76-01666 9-04 5D

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The Direct Titration of Water-Soluble Sulfide in Estuarine Muds of Montsweag Bay, Maine,
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Water Balance in Uganda,
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W76-06678 9-13

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Oxygen, and Other Innovations, Help L Tough Waste Problem,
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Uptake of Mercury by Freshwater Clams (Family Unionidae),
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Meter Replacement Program Pays for Itself,
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Aesthetic Resources of the Coastal Zone.
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'We've Found a Real Time-Saver',
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Influence of Nutrient Availability on Ecosystem Structure,
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Changes in the Reactivity of the Photosynthetic Apparatus in Heterotophic Ageing Cultures of Scenedesmus Obliquus. II. Changes in Ultrastructure and Pigment Composition,
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Changes in the Reactivity of the Photosynthetic Apparatus in Heterotrophic Ageing Cultures of Scenedesmus Obliquus. III. Recovery of the Photosynthetic Capacity in Aged Cells,
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Export of Lead from Salt Marshes,
W76-11717 9-22 5B

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W76-09307 9-17 6G

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Marine Technology Society Eighth Annual Conference Preprints,
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Maritime Consideration of Oil Transportation,
W76-10375 9-19 5G

Maritime Considerations,
W76-10377 9-19 5G

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W76-10374 9-19 5B

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Investigation of Filtration Characteristics of a Nonwoven Fabric Filter,
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W76-04808 9-10 5B

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MARTIN MARIETTA AEROSPACE, DENVER, COLO. DENVER DIV.
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Apparatus for Softening Hard Water,
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The Cherry Creek-Casselman River Environmental Improvement Plan,
W76-08384 9-16 5G

Chlorination and Iodination of Poliovirus and F2,
W76-09196 9-17 5A

MARYLAND DEPT. OF NATURAL RESOURCES, ANNAPOLIS. POWER PLANT SITING PROGRAM.
The Chalk Point Cooling Tower Prject,
W76-04807 9-10 5B

The Chalk Point Cooling Tower Project,
W76-08861 9-17 5B

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Visual Observation of the Suspended Sediments and Nearshore Ice Signatures in Chesapeake Bay,
W76-09571 9-18 2L

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The Anomalous Influence of Salinity on Temperature Tolerances of Summer and Winter Population of the Copepod Eurytemora Affinis,
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Environmental Aspects of Run-off and Siltation in the Anacostia Basin from Hyperaltitude Photographs,
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Metabolism of Mercury Compounds in Microorganisms,
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W76-00440 9-01 5E

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Feasibility of Chlorinating Feedlot Runoff to Meet Bacterial Water Quality Standards,
W76-11334 9-21 5D

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Influence of Organic Nitrogen on Soil Nitrogen, Nodulation, Nitrogen Fixation, and Yield of Soybeans,
W76-00157 9-01 3F

Effects of Salt Sprays on the Yield and Nutrient Balance of Corn and Soybeans,
W76-04820 9-10 5C

Poultry Processing Plant Wastewater Disposal on Sod,
W76-06811 9-14 5D

Effectiveness of Forest Buffer Strips in Improving the Water Quality of Manure Polluted Runoff,
W76-07189 9-14 5B

MARYLAND UNIV., COLLEGE PARK. DEPT. OF BOTANY.
Sodium and Chloride Concentrations in Native Vegetation Near Chalk Point, Maryland,
W76-04819 9-10 5B

MARYLAND UNIV., COLLEGE PARK. DEPT. OF CIVIL ENGINEERING.
Influence of Surface Oxides on Adsorption and Catalysis with Activated Carbon,
W76-00112 9-01 5D

Theory and Application of the Skin Effect Concept to Ground Water Wells,
W76-00399 9-01 8B

Dimensionless Inlet Hydrograph Model,
W76-01256 9-03 2A

Forecasting Urban Water Use: Commercial Establishments,
W76-01609 9-04 6D

Use of Satellite Data in Urban Hydrologic Models,
W76-03748 9-08 7B

A Proposed Index for Comparing Hydrographs,
W76-05157 9-11 2A

MARYLAND UNIV., COLLEGE PARK. DEPT. OF ECONOMICS.
Valuing Long-Run Ecological Consequences and Irreversibilities,
W76-11161 9-21 6G

MARYLAND UNIV., COLLEGE PARK. DEPT. OF METEOROLOGY.
Selected Cases of Convective Precipitation Caused by the Meteropolitan Area of Washington, D.C.,
W76-02422 9-05 2B

Drift Deposition Model for Natural-Draft Cooling Towers,
W76-04832 9-10 5B

MARYLAND UNIV., COLLEGE PARK. DEPT. OF MICROBIOLOGY.
Bacteriological Studies of Wicomico River Soft-Shell Clam (Mya Arenaria) Mortalities,
W76-00873 9-02 5C

Role of Bacteria in Bioaccumulation of Mercury in the Oyster Crassostrea Virginica,
W76-01102 9-03 5B

Effect of South Louisiana Crude Oil and No. 2 Fuel Oil on Growth of Heterotrophic Microorganisms, Including Proteolytic, Lipolytic, Chitinolytic and Cellulolytic Bacteria,
W76-03054 9-07 5C

Seasonal Occurrence and Distribution of Microbial Indicators and Pathogens in the Rhode River of Chesapeake Bay,
W76-05052 9-11 5B

Microbial Ecology of Petroleum Utilization in Chesapeake Bay,
W76-09319 9-17 5C

Microbial Degradation of Model Petroleum at Low Temperatures,
W76-09648 9-18 5C

Petroleum Hydrocarbons: Degradation and Growth Potential for Atlantic Ocean Sediment Bacteria,
W76-10068 9-19 5C

Deep-Sea Bacteria: Growth and Utilization of Hydrocarbons at Ambient and in Situ Pressure,
W76-10349 9-19 5B

Microbial Petroleum Degradation: Use of Mixed Hydrocarbon Substrates,
W76-10350 9-19 5B

Survival of Human Pathogens in the Marine Environment,
W76-10890 9-20 5C

Effects of Petroleum on Estuarine Bacteria,
W76-11814 9-22 5C

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Competition and the Relative Abundances of Two Cladocerans,
W76-10125 9-19 2I

MARYLAND UNIV., COLLEGE PARK. INLAND ENVIRONMENTAL LAB.
Chlorinated Sewage Effluents and Avoidance Reaction of Stream Fish,
W76-01523 9-04 5C

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The Distributional Ecology and Diversity of Benthic Insects in Cement Creek, Colorado,
W76-06587 9-13 2I

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Burying Behavior in Relation to Substrate and Temperature in the Hermit Crab, Pagurus Longicarpus,
W76-00829 9-02 2L

MARYLAND UNIV., SOLOMONS. CHESAPEAK BIOLOGICAL LAB.
A Survey for the use of Remote Sensing in the Chemical Bay Region,
W76-01327 9-03 5B

MARYLAND UNIV., SOLOMONS. CHESAPEAKE BIOLOGICAL LAB.
Respiratory and Hematological Responses of Oyster Toadfish (Opsanus Tau) to Suspended Solids,
W76-04909 9-10 5C

Zooplankton Studies at Morgantown,
W76-08640 9-16 5C

The Effects of Entrainment on Phytoplankton at the Morgantown Steam Electric Station, Potomac River Estuary, September 5-8, 1972,
W76-08641 9-16 5C

Biochemical Studies of Entrained Phytoplankton at the Morgantown Maryland Power Plant,
W76-08642 9-16 5C

Modeling the Chesapeake Bay and Tributaries: a Synopsis,
W76-09587 9-18 2L

An Alternate Grazing Hypothesis for the Patuxent Estuary,
W76-12396 9-23 2L

MARYLAND UNIV., SOLOMONS, MD. CHESAPEAKE BIOLOGICAL LAB.
The Mechanical Effects of Water Flow on Fish Eggs and Larvae,
W76-07491 9-15 8I

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Sludge Dewatering in Effluent Purification Plants of the Pulp and Paper Industry with Special Reference to the Twin-Belt Press (Schlammentwaesserung in Abwasserreinigungs- anlagen der Zellstoff-und Papierindustrie unter besonderer Beruecksichtigung der Doppelsiebpresse),
W76-00057 9-01 5D

Experiences and Possibilities with the Andritz-Sem Double Wire Press for Sludge Dewatering, Particularly in the Paper, Pulp and Board Industry (Erfahrungen und Moeglichkeiten mit der Andritz-Sem Doppelsiebpresse bei der Schlamment-waesserung, insbesondere in der Papier-, Zellstoff-und Karto
W76-05729 9-12 5E

MASON (H. C.) AND ASSOCIATES, INC., GLADSTONE, OREG.
Pollution Controls -- Consultant's Role,
W76-12478 9-23 5G

MASSACHUSETTS INST. OF TECH., BOSTON. DEPT. OF CIVIL ENGINEERING.
PH Profiles in a River System with Multiple Acid Loads,
W76-07235 9-14 5B

IASSACHUSETTS INST. OF TECH., AMBRIDGE.
A Model for Salt Drift Deposition from Spray Ponds,
W76-08866 9-17 5B

Biological Effects of High-Energy Electron Irradiation of Municipal Sludge,
W76-09522 9-18 5C

Prospects for High-Energy Electron Irradiation of Waste-Water Liquid Residuals,
W76-09538 9-18 5D

Oil in the Arctic,
W76-09902 9-18 5C

A Preliminary Assessment of the Environmental Vulnerability of Machias Bay, Maine to Oil Supertankers,
W76-13087 9-24 6G

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Case Study of a Hydroelectric Dam: The Dickey-Lincoln School Project,
W76-04347 9-09 6G

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Fate of Trace Metals in Los Angeles County Wastewater Discharge,
W76-00355 9-01 5B

Water Resources Issues and the 1972 United Nations Conference on the Human Environment,
W76-07688 9-15 5G

Stability and Mixing of a Vertical Round Buoyant Jet in Shallow Water,
W76-08144 9-16 8B

One-Dimensional Temperature Predictions in Unsteady Flows,
W76-08738 9-16 5B

A Flood Management Model for Urbanizing River Basins,
W76-09737 9-18 4C

Hybrid-Element Method for Water Waves,
W76-09945 9-18 8B

Sampling Network Design for Dispersion Verification,
W76-09961 9-18 5B

Offshore Oil Spills and the Marine Environment,
W76-11093 9-20 5G

Flood Control Design with Limited Data - A Comparison of the Classical and Bayesian Approaches,
W76-11703 9-22 4A

Describing Variance with a Simple Water Quality Model and Hypothetical Sampling Programs,
W76-13162 9-24 5B

IASSACHUSETTS INST. OF TECH., AMBRIDGE. DEPT. OF CIVIL NGINEERING; AND MASSACHUSETS INST. F TECH., CAMBRIDGE. RALPH M. PARSONS AB. FOR WATER RESOURCES AND YDRODYNAMICS.
Fate of Trace Metals in Los Angeles County Wastewater Discharge,
W76-00545 9-02 5B

MASSACHUSETTS INST. OF TECH., CAMBRIDGE DEPT. OF CIVIL ENGINEERING; AND MASSACHUSETTS INST. OF TECH., CAMBRIDGE. RALPH M. PARSONS LAB. FOR WATER RESOURCES AND HYDRODYNAMICS.
Energy Dissipation on a Rough Slope,
W76-09582 9-18 8B

Wave Motions in an Offshore Harbor,
W76-09947 9-18 8B

MASSACHUSETTS INST. OF TECH. CAMBRIDGE. DEPT. OF EARTH AND PLANETARY SCIENCES.
Temperature Steps in Lake Kivu: A Bottom Heated Saline Lake,
W76-07774 9-15 2H

Chemical Dynamics of a Polluted Watershed, the Merrimack River in Northern New England,
W76-12833 9-24 5B

MASSACHUSETTS INST. OF TECH., CAMBRIDGE. DEPT. OF MATERIALS SCIENCE AND ENGINEERING.
High-Gradient Magnetic Filtration of Steel Plant Waste Water,
W76-08710 9-16 5D

MASSACHUSETTS INST. OF TECH., CAMBRIDGE. DEPT. OF MECHANICAL ENGINEERING.
New Technologies in Water Purification and Their Application to Arid Lands,
W76-09481 9-18 3A

The Role of Desalting and Brackish Water Resources in the Arid Regions of the Americas,
W76-13133 9-24 3A

MASSACHUSETTS INST. OF TECH., CAMBRIDGE. DEPT. OF METEOROLOGY.
Baroclinic Instability Over A Slope. Part I: Linear Theory,
W76-02917 9-06 2L

Baroclinic Instability Over A Slope. Part II: Finite-Amplitude Theory,
W76-02918 9-06 2L

The Flow of a Two-Layer Fluid over Topogray in a Polar Ocean,
W76-04304 9-09 2L

MASSACHUSETTS INST. OF TECH., CAMBRIDGE. DEPT. OF NUTRITUTION AND FOOD SCIENCE.
Viruses and Ionizing Radiation in Respect to Waste-Water Treatment,
W76-09520 9-18 5D

MASSACHUSETTS INST. OF TECH., CAMBRIDGE. DEPT. OF OCEAN ENGINEERING.
Evaluation of the Strength and Seakeeping Ability of Pollution Control Barriers,
W76-02929 9-06 5G

Oil Spills and Offshore Petroleum,
W76-11092 9-20 5G

MASSACHUSETTS INST. OF TECH., CAMBRIDGE. ENERGY LAB.
Improvement of the Environmental and Economic Characteristics of Cooling Towers: Part I of II. Heat Rejection from Horizontal Tubes to Shallow Fluidized Beds,
W76-02381 9-05 5G

Energy Systems: Modeling and Policy Planning,
W76-09608 9-18 6A

Energy Consumption and Fuel Choice by Residential and Commercial Consumers in the United States,
W76-09609 9-18 6A

Temperature Predictions for Offshore Power Plants,
W76-09960 9-18 5B

MASSACHUSETTS INST. OF TECH., CAMBRIDGE, MASS.
OCS Oil and Gas - An Environmental Assessment. A Report to the President by the Council on Environmental Quality, Vol 5, Potential Biological Effects of Hypothetical Oil Discharges in the Atlantic Coast and Gulf of Alaska.
W76-11952 9-22 6G

OCS Oil and Gas - An Environmental Assessment. A Report to the President by the Council on Environmental Quality, Vol 5, Simulation of Hypothetical Offshore Petroleum Developments.
W76-11953 9-22 6G

OCS Oil and Gas - An Environmental Assessment. A Report to the President by the Council on Environmental Quality, Vol 5, Analysis of Oil Spill Statistics.
W76-11954 9-22 6G

OCS Oil and Gas - An Environmental Assessment. A Report to the President by the Council on Environmental Quality, Vol 5. Oil Spill Trajectory Studies for Atlantic Coast and Gulf of Alaska.
W76-11955 9-22 6G

MASSACHUSETTS INST. OF TECH., CAMBRIDGE, MASS. (ASSIGNEE).
Submerged Multiport Diffusers for Cooling Water Discharge,
W76-06464 9-13 5D

MASSACHUSETTS INST. OF TECH., CAMBRIDGE. RALPH M. PARSONS LAB. FOR WATER RESOURCES AND HYDRODYNAMICS.
Heat Disposal in the Water Environment,
W76-01012 9-03 5B

Rainfall-Runoff as Spatial Stochastic Processes: Data Collection and Synthesis,
W76-02069 9-05 2B

Heat Disposal in Water Environment,
W76-02559 9-06 5B

MASSACHUSETTS INST. OF TECH., CAMBRIDGE. RALPH M. PARSONS LAB. FOR WATER RESOURCES AND HYDRODYNAMICS; AND MASSACHUSETTS INST. OF TECH., CAMBRIDGE. DEPT. OF CIVIL ENGINEERING.
Fate of Trace Metals in Los Angeles County Wastewater Discharge,
W76-01104 9-03 5B

MASSACHUSETTS INST. OF TECHNOLOGY, CAMBRIDGE. DEPT. OF CHEMICAL ENGINEERING.
Sampling Errors in the Quantification of Petroleum in Boston Harbor Water,
W76-10387 9-19 5A

MASSACHUSETTS STATE DEPT. OF AGRICULTURE, WORCESTER. POULTRY HUSBANDRY ADVISER.
Animal Waste in the U. S. A.,
W76-00463 9-01 5D

MASSACHUSETTS UNIV., AMHERST.
Coastal Processes and Sedimentation on the New England Coast,
W76-01498 9-03 2L

Equilibrium Adsorption of Inorganic Phosphate by Lake Sediments,
W76-02562 9-06 5C

Treatment and Disposal of Animal Wastes in Massachusetts,
W76-04418 9-09 5D

Salinities of Ambient and Interstitial Waters of Some Massachusetts North Shore Salt-Marshes,
W76-06158 9-13 5B

MASSACHUSETTS UNIV., AMHERST DEPT. OF AGRICULTURAL AND FOOD ECONOMICS.
Flood Proofing Decisions Under Uncertainty,
W76-05456 9-11 6F

The Impact on Dairy Farm Organization of Alternative Manure Disposal Systems. A Method of Assessing the Cost of Environmental Regulation,
W76-11061 9-20 5D

MASSACHUSETTS UNIV., AMHERST. DEPT. OF AGRICULTURAL ENGINEERING.
The Renovation and Reuse of Water for Dilution and Hydraulic Transport of Dairy Cattle Manure,
W76-12345 9-23 5D

MASSACHUSETTS UNIV., AMHERST. DEPT. OF BOTANY.
Evidence for the Presence of Mutagenic Pollutants in the Millers River: Results of a Plant Bioassay System,
W76-02869 9-06 5C

MASSACHUSETTS UNIV., AMHERST. DEPT. OF CHEMISTRY.
Separation and/or Concentration of Phenolic Materials from Dilute Aqueous Solutions,
W76-04785 9-10 5D

MASSACHUSETTS UNIV., AMHERST. DEPT. OF CIVIL ENGINEERING.
Computerized Monthly Reports, Cost-Effective Alternative,
W76-06300 9-13 7C

Field Evaluation of a Predictive Model for Thermal Stratification in Lakes and Reservoirs,
W76-08920 9-17 2H

Design A River Basin Sampling System,
W76-10131 9-19 5A

Wastewater Treatment - Physical and Chemical Methods, (Literature Review),
W76-12629 9-23 5D

MASSACHUSETTS UNIV., AMHERST. DEPT. OF FOOD AND AGRICULTURAL ENGINEERING.
Chamber Method of Subsurface and Drip Irrigation,
W76-01076 9-03 3F

MASSACHUSETTS UNIV., AMHERST. DEPT. OF FOOD AND RESOURCE ECONOMICS.
Economic and Legal Analysis of Alternative Flood Control Strategies: Phase I,
W76-06159 9-13 6F

MASSACHUSETTS UNIV., AMHERST. DEPT. OF FORESTRY AND WILDLIFE MANAGEMENT.
Models for Evaluation of Freshwater Wetlands,
W76-08921 9-17 4A

The Modified Fernow Frost Gage,
W76-09880 9-18 7B

MASSACHUSETTS UNIV., AMHERST. DEPT. OF GEOLOGY AND GEOGRAPHY.
Equilibrium-Line Altitudes, Mass Balance, and July Freezing-Level Heights in the Canadian High Arctic,
W76-05682 9-12 2C

MASSACHUSETTS UNIV., AMHERST. DEPT. OF PLANT AND SOIL SCIENCES.
The Effect of Land Use on The Chemical and Physical Quality of Surface and Ground Waters in Small Water Sheds,
W76-06552 9-13 5B

MASSACHUSETTS UNIV., AMHERST. DEPT. OF ZOOLOGY.
Seasonal and Annual Variations in the Quantities of Nitrogen, Potassium, Phosphorus, Magnesium, Calcium, and Manganese Reaching the Forest Floor as Mast in Pennsylvania and Vermont Forests,
W76-10306 9-19 5B

MASSACHUSETTS UNIV., AMHERST. SCHOOL OF HEALTH SCIENCES.
A Review of Statistical Procedures used for Examination of Water Data,
W76-01509 9-04 7A

Applications of Linear Time Series Models and Stepwise Regression Models to Selected Water Quality Data on the Connecticut River,
W76-06157 9-13 5B

MASSACHUSETTS UNIV., AMHERST. WATER RESOURCES RESEARCH CENTER.
Modelling the Dynamic Response of Floodplains to Urbanization in Southeastern New England,
W76-02865 9-06 4C

A Model of Alewife Migration in the Parker River, Massachusetts for Simulating an Optimal Anadromous Fish Stock Management Program,
W76-02868 9-06 8I

Tritium and Deuterium as Water Tracers in Hydrologic Systems,
W76-02870 9-06 5B

A Laboratory Investigation of the Effect of Surface Films on Wind Induced Reaeration,
W76-03100 9-07 5B

A Floodplain Management Framework with Structural and Non-Structural Measures,
W76-09754 9-18 6F

Evaluation and Adaptation of Selected Computer Programs to Water Resource Problems in Massachusetts,
W76-10129 9-19 7C

Strengthening Lake-Shoreland Management in Massachusetts,
W76-10264 9-19 6E

MASSACHUSETTS UNIV., GLOUCESTER.
Effects of Seawater Extracts of Crude Oil o
Carbon Budgets in Two Species of Mussels,
W76-09320 9-17 5

MASSACHUSETTS UNIV., GLOUCHESTER. MARINE STATION.
Influence of Temperature on th
Photosynthetic Efficiency in Natural Popul
tions of Marine Phytoplankton,
W76-02022 9-05 5

MASSACHUSETTS UNIV., WALTHAM. DEPT. OF ENVIRONMENTAL SCIENCES.
Comparison of the New Millipore HC wi
Conventional Membrane Filters for the En
meration of Fecal Coliform Bacteria,
W76-05069 9-11 5

Statistical Study of the Duckweed Rhizosphe
as an Eco-Assay Tool,
W76-05605 9-12 5

MASSEY UNIV., PALMERSTON NORTH (NEW ZEALAND).
Biogeochemical Exploration for Tungsten
Barrytown, New Zealand,
W76-02893 9-06 5

MASSEY UNIV., PALMERSTON NORTH (NEW ZEALAND). DEPT. OF SOIL SCIENCE.
Liquid and Vapour Phase Transport in Soils,
W76-05409 9-11 2

Rationalization of Ionic Strength and Catio
Effects on Phosphate Sorption by Soils,
W76-11507 9-21 2

MATERIALS RESEARCH LABS., ASCOT VAL (AUSTRALIA).
Trace Metals in Melbourne Rivers-An Inte
laboratory Analysis,
W76-01770 9-04 5

MATHEMATICA, INC., PHILADELPHIA, PA.
Random Model of Evaporation of Oil at Sea,
W76-11462 9-21 5

MATHEMATICA, INC., PHILADELPHIA, PA. REGIONAL AND ENVIRONMENTAL STUDIES
Literature Review: Movement of Spilled Oil
Sea,
W76-10599 9-20 5

MATHEMATICAL SCIENCES NORTHWEST, INC., BELLEVUE, WASH.
Comparison of Ecological Impacts of Postu
lated Oil Spills at Selected Alaskan Location
Volume I. Introduction, Summary, Methodolo
gy, Evaluation and Appendices,
W76-12379 9-23 5

MATSUSHITA ELECTRIC INDUSTRIAL CO. LTD., KADOMA (JAPAN). (ASSIGNEE).
Method and Apparatus of Treating Industria
Waste Liquid,
W76-02603 9-06 5

MAX C. FLEISCHMANN COL. OF AGRICULTURE, RENO, NEV.
The Effects of Increasing Salinity on th
Pyramid Lake Fishery,
W76-08753 9-17 5

MAX C. FLEISCHMANN COLL. OF AGRICULTURE, RENO, NEV. DIV. OF AGRICULTURAL AND RESOURCE ECONOMICS.
Planning an Input-Output Study for Wate
Resources Management in Nevada,
W76-02640 9-06 6A

MAX C. FLEISHMANN COLL. OF AGRICULTURE, RENO, NEV.
Chemical Composition of Snow in the East Central Sierra Nevada,
W76-04018 9-09 2C

MAX-PLANCK-INSTITUT FUER LIMNOLOGIE, SCHLITZ (WEST GERMANY). LIMNOLOGISCHE FLUSSSTATION.
The Effect of Domestic Waste Water on the Distribution of Gammarus Pulex L. and Gammarus Fossarum Koch in a Sub-Alpine Mountain Stream in Hessen, (In German),
W76-12304 9-23 5C

MAX-PLANCK-INSTITUT FUER LIMNOLOGIE U PLOEN (WEST GERMANY).
The Application of the Scanning Electron Microscope to Freshwater Phytoplankton Taxonomy and Morphology,
W76-09225 9-17 5A

MAX-PLANCK-INSTITUT FUER METALLFORCHUNG, STUTTGART (WEST GERMANY). INSTITUT FUER WERKSTOFFWISSENSCHAFTEN.
Multi-Reaction Proton Activation Analysis for Traces of Molybdenum,
W76-09036 9-17 5A

MAX-PLANCK-INSTITUT FUER METEOROLOGIE, HAMBURG (WEST GERMANY).
A Parametric Wave Prediction Model,
W76-08337 9-16 2L

MCA ENGINEERING CORP., BALTIMORE, MD.
We Must Improve Chlorination Design,
W76-01554 9-04 5D

MCA ENGINEERING CORP., BALTIMORE, MD. ENVIRONMENTAL DIV.
Grease Problems in Municipal Wastewater Treatment Systems,
W76-03225 9-07 5D

MCCOMBS-KNUTSON ASSOCIATED, INC., MINNEAPOLIS, MINN.
Overcomes Phosphate Problem,
W76-02297 9-05 5D

MCCULLOUGH SERVICES, HOUSTON, TEX. RESEARCH AND DEVELOPMENT.
Field Results: Noise-Logging Technique,
W76-00423 9-01 8G

MCGILL UNIV., MONTREAL (QUEBEC).
A Laboratory Test of Some Drain Tube Filter Materials,
W76-00832 9-02 8G

MCGILL UNIV., MONTREAL (QUEBEC). ARCTIC METEOROLOGY RESEARCH GROUP.
Experimental Studies on Glacier Climatology--Especially for the Melt-Climate Relationships,
W76-01248 9-03 2C

MCGILL UNIV., MONTREAL (QUEBEC). DEPT. OF BIOLOGY.
Yellow Perch (Perca Flavescens) Biomass Responses to Different Levels of Phytoplankton and Benthic Biomass in Lake Memphremagog, Quebec-Vermont,
W76-03655 9-08 5C

MCGILL UNIV., MONTREAL (QUEBEC). DEPT. OF CIVIL ENGINEERING AND APPLIED MECHANICS.
An Optimization Model for Balancing Economic-Environmental Systems,
W76-01002 9-03 5G

Turbulent Dense Plumes in a Laminar Cross Flow,
W76-02418 9-05 8B

A Multi-Objective Framework for Environmental Management Using Goal Programming,
W76-08072 9-15 6G

A Multi-Objective Framework for Environmental Management Using Goal Programming,
W76-10582 9-20 6A

Experimental Study of Turbulent Stratified Shearing Flow,
W76-12841 9-24 2L

MCGILL UNIV. MONTREAL (QUEBEC). DEPT. OF GEOGRAPHY.
Mass Balance Measurements Related to Surface Geometry on Peyto Glacier, Alberta,
W76-01243 9-03 2C

The Effect of Climate on the Chemistry of Carbonate Groundwater,
W76-04297 9-09 2F

MCGILL UNIV., MONTREAL (QUEBEC). DEPT. OF PHYSICS.
Statistics of Raingage Data,
W76-05693 9-12 2B

MCGILL UNIV., MONTREAL (QUEBEC). ICE RESEARCH PROJECT.
The Specific Heat of Saline Ice,
W76-07776 9-15 2C

MCGILL UNIV., MONTREAL (QUEBEC). MARINE SCIENCES CENTRE.
A Note on the Effect of Chemical Treatments in the Mineralogical Studies of Sediments,
W76-01109 9-03 5A

Water Chemistry of the St. Lawrence Estuary,
W76-09581 9-18 5A

MCGRAW-HILL WORLD NEWS, SAN FRANCISCO, CALIF.
Contractor Teams Touch All Bases Building Water-Side Sewage Facility,
W76-01563 9-04 5D

MCGRAW-HILL WORLD NEWS, VIENNA (AUSTRIA).
Prefab Casting System Paces Sewer Job Through Wet Site,
W76-08012 9-15 8A

MCKEE-BERGER-MANSUETO, INC., WASHINGTON, D.C.
Design Value In, Waste Out,
W76-03205 9-07 5D

MCMASTER UNIV., HAMILTON (ONTARIO). DEPT. OF BIOLOGY.
Dependence of the Level of Nitrogenase Activity on the Water Content of the Thallus in Peltigera Canina, P. Evansiana, P. Polydactyla, and P. Praetextata,
W76-09916 9-18 5A

MCMASTER UNIV., HAMILTON (ONTARIO). DEPT. OF CHEMICAL ENGINEERING.
Wastewater Sample Preservation,
W76-01772 9-04 5A

Use of Polyelectrolytes for Overload Clarifiers,
W76-03669 9-08 5D

Efficacy of Biological Nitrification,
W76-03684 9-08 5D

Assessment of Polyelectrolytes for Phosphorus Removal,
W76-10492 9-19 5D

Laboratory Evaluation of Polymeric Flocculants,
W76-12898 9-24 5D

MCMASTER UNIV., HAMILTON (ONTARIO). DEPT. OF GEOLOGY.
Regional Hydrochemistry of North American Carbonate Terrains,
W76-04298 9-09 2K

Supershrimp: Deep Bioturbation in the Strait of Canso, Nova Scotia,
W76-11584 9-21 5C

MEAT INDUSTRY RESEARCH INST., WELLINGTON, (NEW ZEALAND).
Acid Coagulation and Dissolved Air Flotation,
W76-08224 9-16 5D

MEDICAL ACADEMY, GDANSK (POLAND). DEPT. OF BIOLOGY.
Effect on Detergents and of Phospho-Gypsum on the Oxygen and Chlorophyll a Levels and on the Dry Weight of the Residue of Brackish Water Under Laboratory Conditions,
W76-01942 9-04 5C

MEDICAL ACADEMY, POZNAN (POLAND). INST. OF CHEMISTRY AND ANALYTICS.
Determination of Boron in Drinking Water from Koszalin Province, (In Polish),
W76-12261 9-23 5A

MEDICAL COLL. OF WISCONSIN, MILWAUKEE. DEPT. OF PHARMACOLOGY.
Glucuronide Formation in Rainbow Trout: Effect of Salicylamide on the Acute Toxicity, Conjugation and Excretion of 3-Trifluoromethyl-4-Nitrophenol,
W76-06031 9-12 5C

MEDITSINSKII INSTITUT, KIEV (USSR).
Hygienic Substantiation of the Possibility of Wastewater Treatment of Poultry Processing Plants on Underground Filter Beds, (In Russian),
W76-08581 9-16 5D

Experimental Effect of Boron on Anticarious Action of Fluorine in Drinking Water, (In Russian),
W76-09885 9-18 5F

MEDITSINSKII INSTITUT SARATOV (USSR).
Hygienic Evaluation of the Quality of Water Desalinated in Industrial Electrodialysis Installations Under Conditions of Country Settlements, (In Russian),
W76-12910 9-24 5F

MEE INDUSTRIES, INC., ROSEMEAD, CALIF.
Research and Development of an Airborne Hygroscopic Spray System,
W76-08111 9-16 3B

MEKEE (ARTHUR G.) AND CO., CLEVELAND, OHIO.
Water Pollution Abatement Technology: Capabilities and Costs, Iron and Steel Industry,
W76-10558 9-20 5D

MEKOROT WATER CO. (ISRAEL). RESEARCH AND DESALTING DIV.
Optimal Operation of the Pumping Stations in the Kinnereth-Eshkol Section of the National Water Carrier,
W76-09629 9-18 4A

MELBOURNE AND METROPOLITAN BOARD OF WORKS (AUSTRALIA).
Some Initial Effects on Water Quantity and Quality of an Experimental Roading and Timber Harvesting Operation in a Victorian Mountain Catchment,
W76-03447 9-07 4C

Report on Environmental Study into Thomson Dam and Associated Works.
W76-03448 9-07 6G

Change in Yield of Water Following a Bushfire in a Forest of Eucalyptus Regnans,
W76-03449 9-07 4C

Change in Yield of Water Following a Bushfire in a Forest of Eucalyptus Regnans,
W76-08349 9-16 4C

MELBOURNE AND METROPOLITAN BOARD OF WORKS MELBOURNE (AUSTRALIA).
Overland Flow,
W76-04134 9-09 2E

MELBOURNE UNIV., PARKVILLE (AUSTRALIA).
Determination of Aluminum in Paper Machine White Water by Potentiometric Titration with Fluoride Ion,
W76-12482 9-23 5A

MELBOURNE UNIV., PARKVILLE (AUSTRALIA). CENTRE FOR ENVIRONMENTAL STUDIES.
Some Components of an Ecosystem Model of Westernport Bay,
W76-04148 9-09 5B

Two-Dimensional Mathematical Water Quality Model,
W76-08135 9-16 5B

MELBOURNE UNIV., PARKVILLE (AUSTRALIA). DEPT. OF CIVIL ENGINEERING.
Transport of Materials in Streams,
W76-04136 9-09 2J

MELBOURNE UNIV., PARKVILLE (AUSTRALIA). SCHOOL OF BOTANY.
Variation in Drought Tolerance in Eucalyptus Viminalis Labill,
W76-07398 9-14 2I

MELITOPOLSKII PEDAGOGICHESKII INSTITUT (USSR).
Formation of Fish Fauna of the Berdyansk Reservoir in the First Twelve Years of its Existence, (In Russian),
W76-09392 9-17 2H

MELYEPTERV, BUDAPEST (HUNGARY).
Water Treatment Plants Designed at Melyepterv for Foreign Customers (Melyepterv altal kulfoldre tervezett vizkezelo berendezesek),
W76-00269 9-01 5F

Treatment of Surface Waters for Domestic Supply (Felszini vizek kezelese ivoviz celjara),
W76-00270 9-01 5F

Designing Water Treatment Plants at the Civil Engineering Consulting Firm Melyepterv (Viztisztitas tervezes a Melyeptiesi Tervezo Vallalatnae),
W76-00562 9-02 5F

MEMORIAL UNIV. OF NEWFOUNDLAND, ST. JOHN'S.
The International Commission for the Northwest Atlantic Fisheries: An Experiment in Conservation,
W76-03929 9-08 6E

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Salinity Effects on Plasma Electrolytes of Channel Catfish, Ictalurus Punctatus,
W76-08443 9-16 5C

MENZEL AND CO., STUTTGART (WEST GERMANY). (ASSIGNEE).
Method of Operating a Purifying Plant and Tank for Practicing Said Method,
W76-09873 9-18 5D

MERCHANT MARINE ACADEMY, KINGS POINT, N.Y.
Biological Treatment of Shipboard Sanitary Waste water,
W76-01229 9-03 5D

MERCK AND CO., INC., PITTSBURGH, PA.
Treatment and Safe Disposal of Cationic Coating Colors,
W76-05488 9-11 5D

META SYSTEMS, INC., CAMBRIDGE, MASS.
Flood Management Decisionmaking in the Connecticut River Basin: Analysis of the Existing Legal, Financial and Institutional Framework for Flood Plain Management,
W76-01599 9-04 6F

Examination of the Concept and Use of the Standard Project Flood,
W76-08321 9-16 8B

Water Pollution Control Act of 1972, Municipal Options.
W76-10568 9-20 5G

Hydraulic Collection and Disposal of Refuse,
W76-11138 9-21 5D

METCALF AND EDDY, INC., BOSTON, MASS.
Nitrification Rate in Biological Processes,
W76-00738 9-02 5D

Awt Plant is Top Performer,
W76-05769 9-12 5D

Nitrogen Removal Depends on Form Nutrient Takes,
W76-10174 9-19 5D

METCALF AND EDDY, INC., NEW YORK.
Water Plant Waste Treatment: State of the Art, Part II,
W76-09045 9-17 5D

METCALF AND EDDY, INC., NEW YORK. (ASSIGNEE).
Alum Recovery and Waste Disposal in Water Treatment,
W76-12399 9-23 5F

METCALF AND EDDY, INC., PALO ALTO, CALIF.
Treatment of Municipal Wastewater by Land Application,
W76-00203 9-01 5E

Design Seminar for Land Treatment of M
nicipal Wastewater Effluents. Design Facto
Part I,
W76-02185 9-05

Irrigation With Wastewater at Bakersfie
California,
W76-03556 9-08

Loop Aeration Tank Design Offers Practi
Advantages, Part I,
W76-03682 9-08

Loop Aeration Tank Design Offers Practi
Advantages, Part II,
W76-03683 9-08

Costs of Wastewater Treatment by Land App
cation,
W76-09774 9-18

Land Treatment of Municipal Wastewater,
W76-11207 9-21

Land Application Practices and Desi
Criteria,
W76-11233 9-21

METEOROLOGICAL OFFICE, CALCUTTA (INDIA).
Comparative Study of Showalter's Stabili
Index and George's Instability Value K for Pr
dicting Local Thunderstorm over Calcutta Ai
port,
W76-03373 9-07

METEOROLOGICAL OFFICE, NEW DELHI (INDIA).
Rainfall and Floods in India During 19
Southwest Monsoon Period,
W76-08732 9-16

Extreme Rainfall Studies of the Brahmani, Th
Burhabalang, The Rushikulya and the Suba
narekha River Catchments,
W76-08733 9-16

METEOROLOGICAL OFFICE, POONA (INDIA).
Agricultural Drought of 1972 Kharif Season,
W76-06681 9-13

Measurement of Soil Moisture in Poona Blac
Cotton Soil Using an Infra-Red Moistur
Balance,
W76-08734 9-16

METEOROLOGICAL RESEARCH INST., TOKYO (JAPAN).
Interannual Fluctuations in the Rainfall of th
India-Equatorial Pacific Region and in th
Tropical Circulation,
W76-00017 9-01

Perennial Snow Covers, Tiny Glacierets an
Snow Fields in Japan as Indices of Climati
Fluctuations,
W76-00018 9-01

METEOROLOGIE NATIONALE, PARIS (FRANCE).
Possible Urban Effects on Maximum Daily
Rainfall at Paris, St. Louis and Chicago,
W76-10929 9-20

METEOROLOGISCHER DIENST DER DEUTSCHEN DEMOKRATISCHEN REPUBLIK, POTSDAM.
Precipitation Conditions Resulting in Flash
Floods as Related to the Frequency Distribu-
tion of Interdiurnal Variations of the Specific

Runoff in Minor Catchment Areas Unaffected by Man,
W76-00302 9-01 2E

METEOROLOGY RESEARCH, INC., ALTADENA, CALIF.
Evaluation of Airborne Raindrop Size-Distributions Measurements for Improving Radar Rainfall Estimates,
W76-06608 9-13 2B

METROPOLITAN DENVER SEWAGE DISPOSAL DISTRICT NO 1, COMMERCE CITY, COLO.
Aerobic Stabilization of Waste Activated Sludge - An Experimental Investigation,
W76-02076 9-05 5D

Fast Replacement of a Flood-Damaged Interceptor,
W76-08240 9-16 8F

METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO, ILL.
The Prairie Plan,
W76-01011 9-03 5C

The Development of a Center Pivot Wastewater Irrigation Machine,
W76-01565 9-04 5D

Using Wastewater Solids to Reclaim Strip-Mined Land,
W76-06287 9-13 5G

METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO, ILL. DEPT. OF RESEARCH AND DEVELOPMENT.
Nitrification of a High Ammonia Content Sludge Supernatant by Use of Rotating Discs,
W76-03228 9-07 5D

Biological Nitrification of Sludge Supernatant by Rotating Disks,
W76-05800 9-12 5D

METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO, ILL. INDUSTRIAL WASTE DIV.
Municipal Wastewater Plant Problems With Cyanide Effluent Regulations,
W76-03247 9-07 5D

METROPOLITAN SANITARY DISTRICT OF GREATER CHICAGO, ILL. SEWER DESIGN SECTION.
Interceptor Sewer Cost Analysis,
W76-03194 9-07 6C

METROPOLITAN SEWERAGE DISTRICT OF THE COUNTY OF MILWAUKEE, WIS.
Reclamation of Gas Turbine Waste Heat for Sludge Drying,
W76-11268 9-21 5D

METROPOLITAN TORONTO DEPT. OF WORKS, (ONTARIO). WATER AND POLLUTION CONTROL DIRECTORATE.
Metropolitan Toronto's Approach to Preventative Maintenance for Treatment Plants,
W76-11255 9-21 5F

METROPOLITAN TORONTO DEPT. OF WORKS (ONTARIO). WATER POLLUTION CONTROL DIV.
Toronto's Approach to Preventive Maintenance for Treatment Plants,
W76-05780 9-12 5F

METZ UNIV. (FRANCE).
Study of the Behaviour of Poliomyelitis Virus Type 1 in Different Hydrous Media, (In French),
W76-11569 9-21 5A

MIAMI CITY, DEPT. OF PUBLIC WORKS, FLA.
Miami Sewer Plan takes the Positive Approach,
W76-01456 9-03 5D

MIAMI-DADE WATER AND SEWER AUTHORITY, FLA.
Miami Pushes Regionalization to Keep Pace with Population,
W76-01546 9-04 5D

MIAMI UNIV., CORAL GABLES, FLA.
Salt-Tolerant Silt Grass (Paspalum Vaginatum Sw.),
W76-07252 9-14 3C

Herbicide Toxicity in Mangroves,
W76-11192 9-21 5C

MIAMI UNIV., CORAL GABLES, FLA. DEPT. OF BIOLOGY.
Differential Responses to Drought in Two Species of Fundulus,
W76-06132 9-12 2H

MIAMI UNIV. CORAL GABLES, FLA. DEPT. OF MECHANICAL AND INDUSTRIAL ENGINEERING.
Feasibility of Remote Sensing for Detecting Thermal Pollution--Part I: Feasibility Study; Part II: Implementation plan,
W76-01838 9-04 5A

MIAMI UNIV., CORAL GABLES, FLA. DEPT. OF PHYSICS.
Mie-Theory Models of Light Scattering by Ocean Particulates,
W76-03881 9-08 2L

MIAMI UNIV., CORAL GABLES, FLA. INST. OF CLEAN ENERGY RESEARCH.
Application of Remote Sensing for Prediction and Detection of Thermal Pollution,
W76-02393 9-05 5A

MIAMI UNIV., FLA.
Proceedings of the Twenty-Eighth Annual Gulf and Caribbean Fisheries Institute.
W76-12226 9-23 6G

MIAMI UNIV., FLA. DEPT. OF ANESTHESIOLOGY.
Effects of Hyperbaric Pressure on Oxygen Concentration in the Swim Bladder of Poecilia Latipinna,
W76-10066 9-19 5C

MIAMI UNIV., FLA. DEPT. OF MICROBIOLOGY.
Effect of Thermal Effluents on the Marine Biology of Southeastern Florida,
W76-02023 9-05 5C

MIAMI UNIV., FLA. DIV. OF OCEAN ENGINEERING; AND ROSENSTIEL SCHOOL OF MARINE AND ATMOSPHERIC SCIENCE.
Tide-Induced Mass Transport in Lagoons,
W76-06396 9-13 2L

MIAMI UNIV., FLA. SEA GRANT INSTITUTIONAL PROGRAM.
An Anonymous Draft Treaty on the Law of the Sea.
W76-04623 9-10 6E

MICHIGAN DEPT. OF COMMERCE, LANSING. OFFICE OF ECONOMIC EXPANSION.
Feasibility of Regional Utilities for Management of Industrial and Municipal Wastes,
W76-05003 9-11 5G

MICHIGAN DEPT. OF NATURAL RESOURCES, HASTINGS.
Contribution of Northern Pike Fingerlings Raised in a Managed Marsh to the Pike Population of an Adjacent Lake,
W76-03520 9-08 8I

MICHIGAN DEPT. OF NATURAL RESOURCES, LANSING.
Status Report on Lake Trout Surveillance in Michigan's Waters of Lake Michigan, 1969-71,
W76-04541 9-10 8I

MICHIGAN DEPT. OF NATURAL RESOURCES, LANSING. AIR POLLUTION CONTROL DIV.
Odor Problems Associated with Agricultural Waste Handling,
W76-00472 9-01 5D

MICHIGAN DEPT. OF NATURAL RESOURCES, LANSING. BUREAU OF WATER MANAGEMENT.
NPDES Permit System and Guidelines for Michigan Presented at the Agricultural Waste Conference, Michigan State University,
W76-00473 9-01 5B

MICHIGAN DEPT. OF NATURAL RESOURCES, LANSING. ENVIRONMENTAL PROTECTION SERVICES.
Michigan's Environmental Control Program and Organization,
W76-00471 9-01 5G

MICHIGAN DEPT. OF NATURAL RESOURCES, LANSING. FISHERIES DIV.
A Possible Reaction of Atlantic Salmon (Salmo Salar) to Injected Chloramphenicol,
W76-01932 9-04 5C

MICHIGAN DEPT. OF NATURAL RESOURCES, LANSING. WATER DEVELOPMENT SERVICES DIV.
Michigan Demonstration Erosion Control Program,
W76-00313 9-01 8B

MICHIGAN DEPT. OF NATURAL RESOURCES, LANSING. WATER QUALITY APPRAISAL SECTION.
Animal Waste Impact on Recreation Waters,
W76-00475 9-01 5B

MICHIGAN DEPT. OF NATURAL RESOURCES, LANSING. WATER RESOURCES COMMISSION.
Proportional Diluter for Effluent Bioassays,
W76-03051 9-07 5A

Michigan General Provisions and Procedures Regulations.
W76-05221 9-11 6E

Michigan Wastewater Reporting and Surveillance Fees Rules.
W76-06067 9-12 5G

MICHIGAN DEPT. OF STATE HIGHWAYS, AND TRANSPORTATION, LANSING.
Freeway Storm Runoff Will be Clarified,
W76-03718 9-08 5D

MICHIGAN STATE UNIV., EAST LANSING.
Evaluation of Dairy, Beef and Swine Waste Handling Systems,
W76-07171 9-14 5D

MICHIGAN STATE UNIV., EAST LANSING.

An Experimental High-Ash Paper Mill Sludge Landfill,
W76-11379 9-21 5E

Removal of Phosphorus and Nitrogen from Wastewater by Spray Irrigation of Land,
W76-12619 9-23 5D

MICHIGAN STATE UNIV., EAST LANSING. AGRICULTURAL EXPERIMENT STATION.
Overwintering of Evergreens in Plastic Structures,
W76-06014 9-12 2I

MICHIGAN STATE UNIV., EAST LANSING. DEPT. OF AGRICULTURAL ECONOMICS.
Impacts of Imposing Selected Pollution Controls,
W76-03982 9-08 5G

Economic Research Pertaining to Problems of Livestock Waste Management and Pollution Control,
W76-07157 9-14 5G

A Summary of State Regulations Pertaining to Animal Waste Management in the North Central Region of the United States,
W76-11060 9-20 5G

MICHIGAN STATE UNIV., EAST LANSING. DEPT. OF BOTANY.
Sodium: A Factor in Growth of Blue-Green Algae,
W76-01156 9-03 5C

Role of Calcium Carbonate Precipitation in Lake Metabolism,
W76-05480 9-11 2H

MICHIGAN STATE UNIV., EAST LANSING. DEPT. OF CHEMICAL ENGINEERING.
A Mathematical Model for Phosphorus Movement in Soils,
W76-03802 9-08 5B

MICHIGAN STATE UNIV., EAST LANSING. DEPT. OF CIVIL AND SANITARY ENGINEERING.
A Field Study on the Relationship of Temperature and Ice to Infiltration at a Spray Irrigation Facility,
W76-01810 9-04 2G

MICHIGAN STATE UNIV., EAST LANSING. DEPT. OF CROP AND SOIL SCIENCES.
Environmental and Cultural Preconditioning Effects on the Water use Rate of Agrostis Palustris Huds., Cultivar Penncross,
W76-12723 9-24 2I

MICHIGAN STATE UNIV., EAST LANSING. DEPT. OF ELECTRICAL ENGINEERING AND SYSTEMS SCIENCE.
A Practical Data Management System for Monitoring and Managing Large Distributed Ecosystems,
W76-11608 9-21 5G

MICHIGAN STATE UNIV., EAST LANSING. DEPT. OF FISHERIES AND WILDLIFE.
Comparative Toxicity of Larval Lampricide (TFM: 3-Trifluoromethyl-4-Nitrophenol) To Selected Benthic Macroinvertebrates,
W76-02330 9-05 5C

Dynamics of Hazardous Elements in Wastewater Ponds,
W76-02867 9-06 5D

Distribution of Mercury, Cadmium, Lead and Thallium in a Eutrophic Lake,
W76-02898 9-06 5B

Community Productivity and Energy Flow in an Enriched Warm-Water Stream,
W76-07608 9-15 5C

The Nutrient Composition, Dynamics, and Ecological Significance of Drift Material in the Red Cedar River,
W76-12946 9-24 5C

MICHIGAN STATE UNIV., EAST LANSING. DEPT. OF GEOLOGY.
Gravity Geophysics for Groundwater Exploration in Glaciated Areas,
W76-09758 9-18 4B

Hydrological Studies of the Saginaw Formation in the Lansing, Michigan Area - 1962,
W76-11870 9-22 2F

MICHIGAN STATE UNIV., EAST LANSING. DEPT. OF PHYSIOLOGY.
In Vivo Oxygen Toxicity in Invertebrates and Vertebrates,
W76-03016 9-07 5C

MICHIGAN STATE UNIV., EAST LANSING. DEPT. OF SOCIOLOGY.
Toward a Quantitative Measure of the Quality of Life,
W76-05363 9-11 6A

Social Scientists and the Quality of Life: A Critical Synthesis,
W76-05369 9-11 6B

MICHIGAN STATE UNIV., EAST LANSING. INST. OF WATER RESEARCH.
The Michigan State University Water Quality Management Program,
W76-03565 9-08 5D

An Ecological Evaluation of a Thermal Discharge: Part 1: Physical and Chemical Limnology Along the Western Shore of Lake Erie,
W76-04572 9-10 1A

An Ecological Evaluation of a Thermal Discharge. Part V: The Distribution and Growth of the Fish Populations Along the Western Shore of Lake Erie at Monroe, Michigan During 1970,
W76-04575 9-10 5C

An Ecological Evaluation of a Thermal Discharge. Part VI: Use of Western Lake Erie by Migratory and Wintering Waterfowl,
W76-04576 9-10 5C

An Ecological Evaluation of a Thermal Discharge: Part VII: Postoperational Effects of a Power Plant on Phytoplankton and Community Metabolism in Western Lake Erie,
W76-04577 9-10 5C

An Ecological Evaluation of Thermal Discharge: Part VIII: Some Effects of Initial Operation of Detroit Edison's Monroe Power Plant on Fish Populations of Lake Erie's Western Shore Area,
W76-04578 9-10 5C

An Ecological Evaluation of a Thermal Dischare: Summary of Early Postoperational Studies,
W76-04579 9-10 5C

An Ecological Evaluation of a Thermal Discharge: Preoperational Studies, 1970-1971,
W76-04580 9-10 5C

Mercury Dynamics in a Warmwater Stream Receiving Municipal Wastewater,
W76-05077 9-11 5C

Nutrients and Primary Production in a Warm Water Stream,
W76-07104 9-14 5C

The Impact of Highway Construction on a North Florida Watershed,
W76-10945 9-20 5B

MICHIGAN STATE UNIV., HICKORY CORNERS. W. K. KELLOGG BIOLOGICAL STATION.
The Relationship Between Watershed Use and Stream Water Quality,
W76-08282 9-16 4D

Structure and Function of Stream Ecosystems,
W76-12137 9-22 2I

MICHIGAN TECHNOLOGICAL UNIV., HOUGHTON.
Operational Systems for Snow Removal and Ice Control: A Background/Resource Paper for the Upper Great Lakes University Consortium for Transportation Research,
W76-01591 9-04 4A

Using Paper Mill Sludge as Concrete Admixture,
W76-11399 9-21 5E

MICHIGAN TECHNOLOGICAL UNIV., HOUGHTON. DEPT. OF CIVIL ENGINEERING.
Effects of Shock Temperature on Biological Systems,
W76-09660 9-18 5C

MICHIGAN UNIV., ANN ARBOR.
Aqueous Complexation of Copper with Sewage and Naturally Occurring Organics,
W76-02570 9-06 5D

Geochronology of Lake Michigan Sediments: Anomalies in Lead-210 Distributions,
W76-05885 9-12 5B

Analytical Chemistry in Water Pollution Control,
W76-09221 9-17 5A

An Assessment of the Airborne Emission of Selected Viruses by Wastewater Treatment Facilities,
W76-12678 9-24 5A

MICHIGAN UNIV., ANN ARBOR. DEPT. OF ATMOSPHERIC AND OCEANIC SCIENCE.
An Approximation for the Shapes of Large Raindrops,
W76-05165 9-11 2B

Studies on Numerical Modeling and Modification of Cyclone Scale Precipitation,
W76-13185 9-24 3B

MICHIGAN UNIV., ANN ARBOR. DEPT. OF CIVIL ENGINEERING.
Rainfall-Runoff Relations on Urban and Rural Areas,
W76-00685 9-02 2A

An Innovative Organizational Arrangement for Comprehensive Water Services: The Thames Water Authority as a Model for Complex Areas of the Great Lakes,
W76-01815 9-04 6E

Transient Aquifer Flows by Characteristics Method,
W76-08513 9-16 2F

Probability Models of Wastewater Treatment Plant Operation,
W76-09210 9-17 5D

Dynamic Programming Model for Wastewater Plant Investment,
W76-13164 9-24 5D

MICHIGAN UNIV., ANN ARBOR. DEPT. OF ENVIRONMENTAL AND INDUSTRIAL HEALTH.
The Application of Mathematical Models and Optimization Techniques in Planning Water Supply and Waste Water Disposal Systems,
W76-12560 9-23 6A

MICHIGAN UNIV., ANN ARBOR. DEPT. OF ENVIRONMENTAL HEALTH.
A Simple Dosing System for Continuous Stream Dosing,
W76-01908 9-04 7B

MICHIGAN UNIV., ANN ARBOR. DEPT. OF GEOGRAPHY.
Computer Simulation of the Snwomelt and Soil Thermal Regime at Barrow, Alaska,
W76-02703 9-06 2C

The Analysis of the Near-Surface Energy Transfer Environment from Thermal Infrared Imagery,
W76-05390 9-11 7B

MICHIGAN UNIV., ANN ARBOR. DEPT. OF NATURAL RESOURCES.
The Social and Economic Importance of the Caroni Swamp in Trinidad and Tabago,
W76-12952 9-24 6G

MICHIGAN UNIV., ANN ARBOR. DEPT. OF NAVAL ARCHITECTURE AND MARINE ENGINEERING.
Economics of Great Lakes Bulk Carriers in Winter Operations,
W76-02384 9-05 6B

Fast Current Oil Control Study,
W76-08748 9-16 5G

Fast Current Oil Response Systems, Tests on Phase I Concepts,
W76-12385 9-23 5G

MICHIGAN UNIV., ANN ARBOR. DEPT. OF WILDLIFE AND FISHERIES.
Survival of Listeria Monocytogenes in Soil and Water,
W76-07423 9-14 5C

MICHIGAN UNIV., ANN ARBOR. GREAT LAKES RESEARCH DIV.
Lake and Shore Ice Conditions on Southeastern Lake Michigan in the Vicinity of the Donald C. Cook Nuclear Plant: Winter 1973-74,
W76-05664 9-12 2C

Storm Induced Relationships Among Chemical Conditions and Phytoplankton in Saginaw Bay and Western Lake Huron,
W76-11282 9-21 5C

Great Lakes Research Division, Chronology of Research: 1950 to the Present.
W76-12815 9-24 2H

MICHIGAN UNIV., ANN ARBOR. GREAT LAKES RESOURCE MANAGEMENT PROGRAM.
Historical Changes in Mercury Contamination in Michigan Walleyes (Stizostedion Vitreum Vitreum),
W76-03652 9-08 5B

MICHIGAN UNIV., ANN ARBOR. MUSEUM OF ZOOLOGY.
Cyprinodon Tularosa, A New Cyprinodontid Fish From the Tularosa Basin, New Mexico,
W76-02668 9-06 2H

MICHIGAN UNIV., ANN ARBOR. SCHOOL OF NATURAL RESOURCES.
Comparative Uptake of a Polychlorinated Biphenyl and Dieldrin by the White Sucker (Cataostomus Commersoni),
W76-03646 9-08 5C

State-Of-The-Art Survey and Evaluation of Marsh Plant Establishment Techniques: Induced and Natural; Volume I: Report of Research,
W76-06635 9-13 4A

State-of-the-Art Survey and Evaluation of Marsh Plant Establishment Techniques: Induced and Natural; Volume II: A Selected Annotated Bibliography on Aquatic and Marsh Plants and their Management,
W76-06636 9-13 4A

Effects of Clear-Cutting on Nutrient Losses in Aspen Forests on Three Soil Types in Michigan,
W76-10315 9-19 4C

MICHIGAN UNIV., ANN ARBOR. SCHOOL OF PUBLIC HEALTH.
Mathematical Optimization of Water Supply Systems State of The Art,
W76-03441 9-07 5F

Airborne Coliphages from Wastewater Treatment Facilities,
W76-12921 9-24 5A

MICHIGAN WATER RESOURCES COMMISSION, EAST LANSING; AND MICHIGAN BUREAU OF WATER MANAGEMENT, EAST LANSING.
Toxicity of Chlorinated Power Plant Condenser Cooling Waters to Fish,
W76-10896 9-20 5C

MID-OHIO REGIONAL PLANNING COMMISSION, COLUMBUS.
Model Flood Plain Zoning Ordinance (Ohio),
W76-05227 9-11 6F

MID WEST RESEARCH INST., KANSAS CITY, MO.
Water Pollution Abatement Technology: Capabilities and Costs, Control of Water Pollution from Selected Nonpoint Sources.
W76-10567 9-20 5D

MIDDLE EAST TECHNICAL UNIV., ANKARA (TURKEY). DEPT. OF CIVIL ENGINEERING.
Comparison of Single-Point Injections in Pipe Flow,
W76-12971 9-24 8B

MIDDLE EAST TECHNICAL UNIV., ANKARA (TURKEY). DEPT. OF ENVIRONMENTAL ENGINEERING.
Aerobic Thermophilic Treatment of High Strength Wastewaters,
W76-11204 9-21 5D

MIDDLE TENNESSEE STATE UNIV., MURFREESBORO. DEPT. OF BIOLOGY.
Adenosine Triphosphatase Activity in Brain, Intestinal Mucosa, Kidney, and Liver Cellular Fractions of the Red-Eared Turtle Following in Vitro Treatment with DDT, DDD, and DDE,
W76-08115 9-16 5C

Insecticide Residues in Two Turtle Species Following Treatment with DDT,
W76-08778 9-17 5C

MIDWEST RESEARCH INST., KANSAS CITY, MO.
Analysis of Nonpoint-Source Pollutants in the Missouri Basin Region,
W76-00369 9-01 5B

Guidelines for the Disposal of Small Quantities of Unused Pesticides,
W76-01875 9-04 5D

Production, Distribution, Use and Environmental Impact Potential of Selected Pesticides,
W76-02316 9-05 5C

Initial Scientific and Minieconomic Review of Parathion.
W76-07612 9-15 5G

Substitute Chemical Program - Initial Scientific and Minieconomic Review of Captan.
W76-09651 9-18 5C

Phenoxy Herbicide Residues and Their Persistence,
W76-11151 9-21 5B

Environmental Impact Assessment, Water Quality Analysis, Lower Missouri River Basin.
W76-11790 9-22 5G

Development of Buoy Mounted Hydrocarbon Vapor Sensors for Use in Local Area Pollution Surveillance Systems,
W76-11930 9-22 5A

MIDWEST RESEARCH INST., MINNEAPOLIS, MINN. NORTH STAR RESEARCH DIV.
In-Situ-Formed Condensation Polymers for Reverse Osomsis Membranes-Final report,
W76-03259 9-07 3A

Continued Evaluation of In-Situ-Formed Condensation Polymers for Reverse Osmosis Membranes,
W76-08116 9-16 3A

Water Pollution Control Act of 1972, Environmental Impact Assessment, Iowa-Cedar River Basin.
W76-11786 9-22 5G

Water Pollution Control Act of 1972, Environmental Impact Assessment, Upper Mississippi River Basin,
W76-11791 9-22 5G

MIDWESTERN UNIV., WICHITA FALLS, TEX. DEPT. OF CHEMISTRY.
Direct Spectropolarimetric Determination of Molybdenum (VI) With D-(-)-1,2-Propylene Diamine- Tetraacetic Acid,
W76-02883 9-06 5A

MIE PREFECTURAL UNIV., TSU (JAPAN).
Regional Distribution and Seasonal Change in Precipitation Variability in Monsoon Asia,
W76-00016 9-01 2B

MILAN UNIV. (ITALY). LABORATORIO DI ZOOLOGIA.
The Po River at the Island of Serafini, (In Italian),
W76-09305 9-17 2E

MILBREW, INC., JUNEAU, WIS.
Protein Production From Acid Whey Via Fermentation,
W76-04741 9-10 5D

MILCHEM INC., HOUSTON, TEX.
Use of a Bioassay Test in Evaluating the Toxicity of Drilling Fluid Additives on Galveston Bay Shrimp,
W76-00408 9-01 5A

MILFORD DEPT. OF PUBLIC WORKS, CONN.
Sewer Alarm System Saves Taxpayers' Dollars,
W76-08030 9-15 5D

MILJOPLAN, HOVIK (NORWAY). WATER POLLUTION SECTION.
Wastewater Disposal by Submerged Manifolds,
W76-06387 9-13 5B

MILLIPORE CORP., BEDFORD, MASS.
Evaluation of a Single-Step Bacterial Pollution Monitor,
W76-01758 9-04 5A

MILWAUKEE PUBLIC MUSEUM, WIS. VERTEBRATE DIV.
A Study of the Ozark Hellbender Cryptobranchus Alleganiensis Bishopi,
W76-01199 9-03 2H

MILWAUKEE SEWERAGE COMMISSION, WIS.
Lake Michigan Gets Help,
W76-08246 9-16 5D

MINGES (JAMES S.) AND ASSOCIATES, INC., FARMINGTON, CONN.
Value Engineering: Make Sure The Costs Are Right,
W76-12906 9-24 5D

MINISTERSTVO SELSKOGO KHOZYAISTVA, MOSCOW (USSR).
Zooplankton of Lakes of the Bol'Shezemel-Skaya Tundra, (In Russian),
W76-11056 9-20 5C

MINISTERSTVO ZDRAVOOKHRANENIYA S.S.S.R., MOSCOW. INSTITUT BIOFIZIKI.
The Role of Freshwater Fish as a Possible Supplier of P32 Under the Conditions of Pollution of Natural Water Reservoirs by this Radionuclide,
W76-06884 9-14 5B

MINISTERSTVO ZDRAVOOKHRANENIYA SSSR, MOSCOW. INSTITUT BIOFIZIKI.
Characteristics of the Radiation Conditions of Development of Eggs of Freshwater Fishes Belonging to Diffeent Ecological Groups, (In Russian),
W76-02615 9-06 5C

The Significance of Diisocyanate Stability in Water in Hygienic Standardization, (In Russian),
W76-03648 9-08 5B

The Role of Water and Food in the Uptake of Cs137 by Fish Organisms,
W76-06878 9-14 5C

Distribution and Migration of Sr90 in an Experimental Still Water Reservoir,
W76-06879 9-14 5B

Determination of the Conditions of Discharge of Sewage into Waters, (In Russian),
W76-12266 9-23 5G

Hygienic Substantiation of the Maximum Permissible Concentration of Hydrogen Peroxide in Surface Waters, (In Russian),
W76-12315 9-23 5A

MINISTERSTVO ZDRAVOOKRANENIYA SSSR, LENINGRAD. INST. OF BIOPHYSICS.
Certain Problems of Substantiating Permissible Densities of Surface Contamination with Beryllium, (In Russian),
W76-02320 9-05 5A

MINISTRY OF AGRICULTURE AND FORESTRY, TOKYO (JAPAN). SERICULTURAL EXPERIMENT STATION.
A Study of the Quality of Silk Reeling Water in Regard to Solubility of Cocoon-Sericin, (In Japanese),
W76-11557 9-21 5B

MINISTRY OF AGRICULTURE AND LANDS, KUALA LUMPUR (MALAYSIA). DIV. OF AGRICULTURE.
A Problem in the Use of Insecticides in Paddy Fields in West Malaysia: A Case Study,
W76-00581 9-02 5B

MINISTRY OF AGRICULTURE, ANTRIM (NORTHERN IRELAND). FRESHWATER BIOLOGICAL INVESTIGATION UNIT.
Semi-Automated Ammonia Probe Determination of Kjeldahl Nitrogen in Freshwaters,
W76-06391 9-13 5A

MINISTRY OF AGRICULTURE, FISHERIES AND FOOD, BURNHAM-ON-CROUCH (ENGLAND). FISHERIES LAB.
Disposal of Sewage Sludge to Sea; United Kingdom Experience and Practice,
W76-05085 9-11 5E

Toxicity of Oil-Sinking Agents,
W76-11592 9-21 5C

MINISTRY OF AGRICULTURE, FISHERIES AND FOOD, CAMBRIDGE (ENGLAND). FIELD DRAINAGE EXPERIMENTAL UNIT.
The Hydraulic Characteristics of Plastic Land Drainage Pipe,
W76-01290 9-03 8G

MINISTRY OF AGRICULTURE, FISHERIES AND FOOD, CONWAY (WALES). FISHERIES EXPERIMENT STATION.
Observations on Blooms of the Dinoflagellate Gyrodinium Aureolum Hulburt in the River Conway and its Occurrence Along the North Wales Coast,
W76-06245 9-13 5C

MINISTRY OF AGRICULTURE, FISHERIES AND FOOD, CONWAY (WALES). SHELLFISH CULTURE UNIT.
Observations on the Breeding and Growth of the Giant Freshwater Prawn Macrobrachium Rosenbergii (De Man) in the Laboratory,
W76-07971 9-15 8I

MINISTRY OF AGRICULTURE, FISHERIES AND FOOD, LONDON (ENGLAND). SALMON AND FRESHWATER FISHERIES LAB.
Chloramine-T for the Control of Ichthyophthirius Multifiliis (Fouquet),
W76-12143 9-22 5C

MINISTRY OF AGRICULTURE, FISHERIES AND FOOD, LOWESTOFT (ENGLAND). FISHERIES RADIOBIOLOGICAL LAB.
Environmental and Public Health Consequences of the Controlled Disposal of Transuranic Elements to the Marine Environment,
W76-08604 9-16 5C

A Review of Methods for the Determination of Radioactive and Stable Zirconium in the Marine Environment,
W76-08620 9-16 5A

A Review of Methods for the Determination of Radioactive and Stable Silver in the Marine Environment,
W76-08621 9-16 5A

A Review of Methods for the Determination of Iodine-131 in the Marine Environment,
W76-08622 9-16 5A

A Study of the Stability of Some Radionuclides in Seawater,
W76-08625 9-16 5A

MINISTRY OF AGRICULTURE, FISHERIES AND FOOD, PINNER (ENGLAND).
Farm Waste Disposal.
W76-04427 9-09 5E

MINISTRY OF AGRICULTURE, NAIROBI (KENYA). WATER DEPT.
Toxicity of Rotenone to Some Species of Coarse Fish and Invertebrates,
W76-01534 9-04 5C

MINISTRY OF FOREIGN AFFAIRS, NAIROBI (KENYA). LEGAL DIV.
System for Exploitation of the 'Common Heritage of Mankind' at the Caracas Conference,
W76-00933 9-02 6A

Settlement of Disputes Arising Under the Law of the Sea Convention,
W76-10590 9-20 6E

MINISTRY OF FOREST AND WATER MANAGEMENT, PRAGUE (CZECHOSLOVAKIA).
The Czechoslovak Water Development Planning Approach and Its Application,
W76-05749 9-12 6A

MINISTRY OF WORKS AND DEVELOPMENT, NELSON (NEW ZEALAND).
An Estimate of Total Surface Area of Vegetation for Pukeiti Catchment, Northland, New Zealand,
W76-03360 9-07 4D

MINNESOTA AGRICULTURAL EXPERIMENT STATION, ST. PAUL.
A Field Study of Soil Water Depletion Patterns in Presence of Growing Soybean Roots: I. Determination of Hydraulic Properties of the Soil,
W76-02933 9-06 2G

MINNESOTA DEPT. OF NATURAL RESOURCES, ST. PAUL.
A Three-Directional Approach to Flood Plain Management, Minnesota Experiences,
W76-05228 9-11 6F

Sample Subdivision Control Ordinance for Flood Hazard Areas.
W76-06494 9-13 6F

Sample Flood Plain Zoning Ordinance for Local Units of Government.
W76-06828 9-14 6F

MINNESOTA DEPT. OF NATURAL RESOURCES, ST. PAUL. DIV. OF WATER, SOILS AND MINERALS.
Climate of Minnesota, Part VIII--Precipitation Patterns in the Minneapolis-St. Paul Metropolitan Area and Surrounding Counties,
W76-00504 9-02 2B

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W76-04356 9-09 6F

MINNESOTA MARINE ADVISORY SERVICE, DULUTH.
Oxygen Transfer at High Solids Concentrations,
W76-03236 9-07 5D

MINNESOTA MINING AND MFG. CO., ST. PAUL.
Making Environmental Legislation Work,
W76-02093 9-05 6E

MINNESOTA MINING AND MFG. CO., ST. PAUL. (ASSIGNEE).
Coalescing Unit for Gravity Separator,
W76-10484 9-19 5G

MINNESOTA POLLUTION CONTROL AGENCY, MINNEAPOLIS. DIV. OF WATER QUALITY.
Status Memorandum on Christmas Lake Watershed.
W76-02682 9-06 5B

Report on Investigation of Water Quality of Christmas Lake Watershed.
W76-02931 9-06 5B

MINNESOTA STATE SENATE, ST. PAUL.
Environmental Impact Statements/Environmental Policy Act--Legislative Intent,
W76-06558 9-13 6G

MINNESOTA UNIV., DULUTH. DEPT. OF CHEMISTRY.
Organo-Chemical Implications of Water Chlorination,
W76-12880 9-24 5C

Chlorinated Compounds Found in Waste-Treatment Effluents and Their Capacity to Bioaccumulate,
W76-12891 9-24 5A

MINNESOTA UNIV., DULUTH. DEPT. OF ECONOMICS.
Benefit Cost Analysis--A Necessary Part of Environmental Decisioning,
W76-12576 9-23 6G

MINNESOTA UNIV., DULUTH. DEPT. OF PHYSICS.
Remote Sensing in Lake Superior Studies,
W76-02908 9-06 2H

MINNESOTA UNIV., DULUTH. SCHOOL OF MEDICINE.
Studies on the Effects of Thermal Additions on Selected Zooplankton Populations,
W76-04012 9-09 5C

MINNESOTA UNIV., MINNEAPOLIS.
Nitrate Reduction in Peat,
W76-12625 9-23 5D

MINNESOTA UNIV., MINNEAPOLIS. DEPT. OF ANIMAL SCIENCE.
Influence of an Antibiotic on the Performance of Yearling Holstein Steers,
W76-04434 9-09 5C

MINNESOTA UNIV., MINNEAPOLIS. DEPT. OF CIVIL AND MINERAL ENGINEERING.
Use of ERTS Imagery to Assist in Snowmelt Flood Prediction,
W76-02906 9-06 2C

Carbon Contents of Surface and Underground Waters in South-Central Minnesota,
W76-12202 9-23 5A

MINNESOTA UNIV., MINNEAPOLIS. DEPT. OF ECOLOGY AND BEHAVIORAL BIOLOGY.
A Model of Ion Transport During Moisture Flow From a Douglas Fir Forest Floor,
W76-01613 9-04 2I

Chlorine-Induced Mortality in Fish,
W76-03775 9-08 5C

MINNESOTA UNIV., MINNEAPOLIS, DEPT. OF GEOGRAPHY.
Remote Sensing Applications to Hydrology in Minnesota,
W76-02907 9-06 4A

The Contribution of a Water Information System for Environmental Planning in Minnesota,
W76-09753 9-18 6G

MINNESOTA UNIV., MINNEAPOLIS. SCHOOL OF MATHEMATICS.
Special Solutions for Nonlinear Erosion Problems,
W76-01296 9-03 2J

MINNESOTA UNIV., MINNEAPOLIS. SPACE SCIENCES CENTER.
A Study of Minnesota Forests and Lakes Using Data from Earth Resources Technology Satellites, Twenty-Four Month Progress Report.
W76-02901 9-06 4A

MINNESOTA UNIV., MINNEAPOLIS. ST. ANTHONY FALLS HYDRAULIC LAB.
Flow Establishment and Initial Entrainment of Heated Water Surface Jets,
W76-00679 9-02 5B

Scour at Bridge Waterways--A Review,
W76-02684 9-06 8B

MINNESOTA UNIV., MINNEAPOLIS. WATER RESOURCES RESEARCH CENTER.
Proceedings of Conference on 'Perspectives on Formulating State Water Policy'.
W76-06160 9-13 6E

Environmental Assessment and Design: Proceedings of a Seminar.
W76-06555 9-13 6G

Minnesota Environmental Impact Statements--A Users Viewpoint,
W76-06559 9-13 6G

MINNESOTA UNIV., MINNEOPOLIS. WATER RESOURCES RESEARCH CENTER.
The Ecological Basis for the August 1, 1973 Guidelines of the Council on Environmental Quality, and Some Ideas for the Preparation of Environmental Impact Statements,
W76-06556 9-13 6G

MINNESOTA UNIV. ST. PAUL.
The Effect of Soil Crusts on Infiltration: The Effect of Aggregate Size and Depth of Tillage on Steady Infiltration Through Crust-Topped Tilled Soils,
W76-00539 9-02 2G

Implications of Selected Non-Point Source Pollution Regulations for U.S. Dairy Farms,
W76-07162 9-14 5G

MINNESOTA UNIV., ST. PAUL. COLL. OF FORESTRY.
A Hydronomic Analysis of Forest Management Alternatives for Environmental Quality: A Case Study of Itasca County,
W76-02362 9-05 6B

MINNESOTA UNIV., ST. PAUL. COLL. OF VETERINARY MEDICINE.
Survival of Pathogens in Animal Manure Disposal,
W76-02765 9-06 5C

MINNESOTA UNIV., ST. PAUL. COUNCIL ON ENVIRONMENTAL QUALITY.
Minnesota Environmental Impact Statement Requirements,
W76-06560 9-13 6G

MINNESOTA UNIV., ST. PAUL. DEPT. OF AGRICULTURAL AND APPLIED ECONOMICS.
Irrigation Systems in Taiwan: Management of a Decentralized Public Enterprise,
W76-09848 9-18 3F

MINNESOTA UNIV., ST. PAUL. DEPT. OF AGRICULTURAL ENGINEERING.
Modeling Infiltration and Redistribution of Soil Water During Intermittent Applications,
W76-01085 9-03 2G

Waste Management Systems for Roofed Beef Confinement Facilities,
W76-11040 9-20 5D

MINNESOTA UNIV., ST. PAUL. DEPT. OF ENTOMOLOGY, FISHERIES AND WILDLIFE.
In Vitro Inhibition of Fish Brain Atpase Activity by Cyclodiene Insecticides and Related Compounds,
W76-00874 9-02 5C

The Relationship of the 96-Hour LC50 to the Lethal Threshold Concentration of Hexavalent Chromium, Phenol, and Sodium Pentachlorophenate for Fat-Head Minnows (Pimephales Promelas Rafinesque),
W76-02325 9-05 5C

Acute Toxicity of Sodium Chloride, Pentachlorophenol, Guthion(R), and Hexavalent Chromium to Fathead Minnows (Pimephales Promelas) and Goldfish (Carassius Auratus),
W76-10335 9-19 5C

Fathead Minnows (Pimephales Promelas) and Goldfish (Carassius Auratus) as Standard Fish in Bioassays and Their Reaction to Potential Reference Toxicants,
W76-10336 9-19 5A

MINNESOTA UNIV., ST. PAUL. DEPT. OF FOREST BIOLOGY.
Evaulation of Water Quality by Remote Sensing Techniques,
W76-02903 9-06 5A

MINNESOTA UNIV., ST. PAUL. DEPT. OF PLANT PATHOLOGY.
Forest Disease Detection and Control,
W76-02902 9-06 2I

MINNESOTA UNIV., ST. PAUL. DEPT. OF SOIL SCIENCE.
Soil Pollutants and Their Effects on Clean Water,
W76-01020 9-03 5C

Phosphorus in Surface Runoff from a Deciduous Forest,
W76-01145 9-03 5B

MINNESOTA UNIV., ST. PAUL. DEPT. OF SOIL SCIENCE.

Effect of An Asphalt Barrier on Water Storage and Drought Probability,
W76-02872 9-06 3B

Detecting Saline Soils in the Red River Valley, Minnesota,
W76-02905 9-06 2G

MINNESOTA UNIV., ST. PAUL. FRESHWATER BIOLOGICAL RESEARCH FOUNDATION.
Metabolic Cycles for Toxic Elements in Aqueous Systems,
W76-09933 9-18 5C

MINNESOTA UNIV., ST. PAUL. INST. OF AGRICULTURE REMOTE SENSING LAB.
Forest Vegetation Classification and Management,
W76-02904 9-06 4A

MINNESOTA UNIV., ST. PAUL. WATER RESOURCES RESEARCH CENTER.
Eleventh Annual Report, Water Resources Research Center.
W76-00378 9-01 9D

MINNESOTA WATER RESOURCES COUNCIL, ST. PAUL. WATER AND RELATED LAND RESOURCES INFORMATION SYSTEMS SUBCOMMITTEE.
Water Information Systems Catalog.
W76-06256 9-13 10C

MISSISSIPI STATE UNIV., STATE COLLEGE. DEPT. OF AGRONOMY.
Redox Potentials in Soil Columns Intermittently Flooded with Sewage Water,
W76-12145 9-22 5B

MISSISSIPPI STATE UNIV., MISSISSIPPI STATE.
Evaluation of Anaerobic Lagoon Treating Swine Wastes,
W76-01032 9-03 5D

Species Composition, Standing Stock, and Net Primary Production of a Salt Marsh Community in Mississippi,
W76-01164 9-03 2L

Estimating Sludge Production Aids in Facilities Design, Part II,
W76-03444 9-07 5D

The Phenol-Sulfuric Acid Test,
W76-09191 9-17 5A

MISSISSIPPI STATE UNIV., MISSISSIPPI STATE. DEPT. OF AGRICULTURAL AND BIOLOGICAL ENGINEERING.
Transportation of Solids by Water in Pipelines,
W76-10806 9-20 8B

MISSISSIPPI STATE UNIV., MISSISSIPPI STATE. DEPT. OF CIVIL ENGINEERING.
Process Control by Oxygen-Uptake and Solids Analysis,
W76-03670 9-08 5D

Treating Dye and Finishing Wastes,
W76-04789 9-10 5D

Removal of Algae from Waste Stabilization Pond Effluent,
W76-11171 9-21 5D

MISSISSIPPI STATE UNIV., MISSISSIPPI STATE. DEPT. OF MICROBIOLOGY.
The Effect of Mirex and Carbofuran on Estuarine Microorganisms,
W76-01864 9-04 5B

MISSISSIPPI STATE UNIV., MISSISSIPPI STATE. SOCIAL SCIENCE RESEARCH CENTER.
An Evaluation of Public Hearings on Water Development Projects in Mississippi,
W76-11337 9-21 6B

MISSISSIPPI STATE UNIV., MISSISSIPPI STATE. WATER RESOURCE RESEARCH INST.
Evaluation of Prior Appropriation in Mississippi,
W76-11336 9-21 6E

MISSISSIPPI STATE UNIV., STATE COLLEGE.
Agricultural Wastes, (Literature Review),
W76-01390 9-03 5D

MISSISSIPPI STATE UNIV., STATE COLLEGE. DEPT. OF AGRONOMY.
Calculating the Unsaturated Hydraulic Conductivity and Diffusivity,
W76-08142 9-16 2G

MISSISSIPPI UNIV., DEPT. OF BIOLOGY.
The Effects of Variations in Turbidity on Cycles of Planktonic and Benthic Organisms in Flood Control Reservoirs,
W76-11172 9-21 5C

MISSISSIPPI UNIV., JACKSON. DEPT. OF ANATOMY.
Acute Effects of Methyl Mercury Toxicity in Channel Catfish (Ictalurus Punctatus) Kidney,
W76-03044 9-07 5C

MISSISSIPPI UNIV., UNIVERSITY. DEPT. OF CIVIL ENGINEERING.
The Influence of Suspended Sediment on the Reaeration of Uniform Streams,
W76-02934 9-06 5G

MISSISSIPPI UNIV., UNIVERSITY. DEPT. OF ECONOMICS.
An Empirical Analysis of Water-Price Determinants in Small Municipalities,
W76-04936 9-10 6C

The Impact of Flooding Upon Land Values in the Big Black River Basin,
W76-11330 9-21 6C

MISSISSIPPI UNIV., UNIVERSITY. DEPT. OF GEOLOGY AND GEOLOGICAL ENGINEERING.
Temporal Changes in the Offshore Islands of Mississippi,
W76-11905 9-22 2J

MISSOURI AGRICULTURAL EXPERIMENTAL STATION, COLUMBIA.
Phosphate Determinations in Waters Using an Anion Exchange Resin,
W76-09370 9-17 5A

MISSOURI BOTANICAL GARDEN, ST. LOUIS.
Environmental Inventory and Assessment of Navigation Pools 24, 25, and 26, Upper Mississippi and Lower Illinois Rivers; A Vegetational Study,
W76-11748 9-22 6G

MISSOURI STATE DIV. OF HEALTH, JEFFERSON CITY. BUREAU OF WATER SUPPLY.
Check Sampling for Monitoring Bacteriological Quality.
W76-00391 9-01 5A

MISSOURI UNIV., COLUMBIA.
Legal Remedies for Pollution Abatement,
W76-01403 9-03 5G

Social Well-Being and Quality of Life: Science, Politics or Movement.
W76-05370 9-11 6B

Detergents, (Literature Review),
W76-12925 9-24 5C

MISSOURI UNIV., COLUMBIA. DEPT. OF AGRICULTURAL ECNOMICS.
Water Pollution Laws and Regulations,
W76-01375 9-03 5G

MISSOURI UNIV., COLUMBIA. DEPT. OF AGRICULTURAL ENGINEERING.
A Lagoon-Grass Terrace System to Treat Swine Waste,
W76-07198 9-14 5D

MISSOURI UNIV., COLUMBIA. DEPT. OF AGRONOMY.
Fragipan Stability in Soil-Plant Effluent Disposal Systems,
W76-11104 9-21 2G

MISSOURI UNIV., COLUMBIA. DEPT. OF ATMOSPHERIC SCIENCE.
Determination of the Frequency of Precipitation in Excess of Design Criteria at More Than a Single Location During a Hydrologic Season,
W76-07581 9-15 2B

MISSOURI UNIV., COLUMBIA. DEPT. OF CHEMISTRY.
The Preparation and Oxidative Properties of Ferrate Ion (FeO42-) Studies Directed Toward Its Use as a Water Purfying Agent, Phase II,
W76-01687 9-04 5D

Cleaning Coal With Coal: Coal Humic Acids for Removal of Acid, Iron, Heavy Metals, and Organic Pollutants Associated With Use of Coal as a Fuel,
W76-01688 9-04 5D

Ion-Selective Electrodes in Environmental Research,
W76-03499 9-07 5A

MISSOURI UNIV., COLUMBIA. DEPT. OF CIVIL ENGINEERING.
Hydrology for Engineers and Planners,
W76-00531 9-02 2A

Polymer Conditioning of Chemical Sludges,
W76-03822 9-08 5E

Acid Strip Mine Lake Recovery,
W76-07499 9-15 5G

Electrochemical Production of Free Radicals for Wastewater Treatment,
W76-10876 9-20 5D

MISSOURI UNIV., COLUMBIA. DEPT. OF GEOLOGY.
A Graphical Procedure for Classifying Aquifer Management Strategy,
W76-02159 9-05 4B

MISSOURI UNIV., COLUMBIA, DEPT. OF VETERINARY MEDICINE AND SURGERY.
Nature and History of the Nitrate Problem,
W76-01033 9-03 5B

MISSOURI UNIV., ROLLA.
Geochemical Impact on Lead-Mining Wastewaters on Streams in Southeastern Missouri,
W76-02897 9-06 5C

Water Resources Problems and Solutions Associated with the New Lead Belt of S.E. Missouri,
W76-06948 9-14 5G

Detection of Incipient Failure in Earth Dams,
W76-07671 9-15 8D

MISSOURI UNIV., ROLLA. DEPT. OF CHEMISTRY.
Accumulation of Mercury by Fish of the Little Piney River and Mill Creek,
W76-07670 9-15 5A

Kinetics and Mechanisms of the Oxidative Degradation of Nitrilotriacetic Acid (NTA) in Aqueous Solutions,
W76-08843 9-17 5B

MISSOURI UNIV., ROLLA. DEPT. OF CIVIL ENGINEERING.
Use of Domestic Waste Glass for Urban Paving, Summary Report,
W76-02657 9-06 5E

Anaerobic Filter Treatment of Pharmaceutical Waste,
W76-05275 9-11 5D

MISSOURI UNIV., ROLLA. DEPT. OF GEOLOGY AND GEOPHYSICS.
Heavy Metal (Cu, Pb, Zn, Cd, Ni, As, Hg) Additions to Surface Waters, Streams Sediments and Selected Aquatic Life in the Meramec Park Reservoir Drainage Basin, Missouri,
W76-01686 9-04 5B

MISSOURI UNIV., ROLLA. DEPT. OF GEOPHYSICS.
The Detection and Mapping of Subterranean Water Bearing Channels--Phase II,
W76-05129 9-11 4B

MISSOURI UNIV., ROLLA. DEPT. OF MECHANICAL AND AEROSPACE ENGINEERING; AND MISSOURI UNIV., ROLLA. THERMAL RADIATIVE TRANSFER GROUP.
Diurnal Solar Flux Distribution in a Deep Water Reservoir,
W76-04941 9-10 2H

MISSOURI UNIV., ROLLA. DEPT. OF METALLURGICAL AND NUCLEAR ENGINEERING.
Characterization of Sulfide Mineral Surfaces in Froth Flotation Systems using Electron Spectroscopy for Chemical Analysis,
W76-10635 9-20 5D

MISSOURI UNIV., ROLLA. GRADUATE CENTER FOR CLOUD PHYSICS RESEARCH.
Retardation of Condensation Nuclei Growth by Surfactant,
W76-00908 9-02 2B

Some Remarks on Modeling of the Early Stages of Cloud Formation in a Simulation Chamber,
W76-07070 9-14 2B

MISSOURI UNIV., ROLLA. LIFE SCIENCE LAB.
Evaluating the Membrane Fecal Coliform Test by Using Escherichia Coli as the Indicator Organism,
W76-12175 9-23 5A

MISSOURI UNIV., ST. LOUIS.
Regional Planning for Land Disposal of Wastewater,
W76-11706 9-22 5D

MISSOURI UNIV., ST. LOUIS. SCHOOL OF BUSINESS ADMINISTRATION.
An Application of Discriminant Analysis to Determine the Demand for Industrial Flood Plain Location,
W76-03283 9-07 6F

MITRE CORP., MCLEAN, VA.
Impacts of Hydrologic Modification on Water Quality,
W76-05866 9-12 5G

Development of Water Quality Management Indices,
W76-07152 9-14 5G

MITSUBISHI GAS CHEMICAL CO., LTD., TOKYO (JAPAN). (ASSIGNEE).
Method for Treating Fouled Water,
W76-10467 9-19 5D

MITSUI MINING AND SMELTING CO. LTD., TOKYO(JAPAN). (ASSIGNEE).
Method of Electrolytic Treatment of Waste Water,
W76-07707 9-15 5D

MITSUI SHIPBUILDING AND ENGINEERING CO. LTD., TOKYO (JAPAN). (ASSIGNEE).
Device for Damping Waves,
W76-11825 9-22 8B

MIXING EQUIPMENT CO., ROCHESTER, N.Y.
The Role of Mixing in Equalization,
W76-00237 9-01 5D

MO OCH DOMSJO A.B., ORNSKOLDSVIK (SWEDEN).
Process for Separating Cellulose from Waste Water (Verfahren zur Befreiung von Zellulose aus Abwaessern),
W76-12502 9-23 5D

MOBIL OIL CORP., EAST CHICAGO, IND.
Waste Water Recycled For Use in Refinery Cooling Towers,
W76-08270 9-16 5D

MOBIL OIL CORP., NEW YORK. (ASSIGNEE).
Flocculation Process,
W76-11451 9-21 5D

MOBIL RESEARCH AND DEVELOPMENT CORP., DALLAS, TEX.
Engineering Properties of Compacted Clay Conditioned by Saturation and Freeze-Thaw Cycles,
W76-12453 9-23 2C

MOBIL RESEARCH AND DEVELOPMENT CORP., PAULSBORO, N. J.
Efficient, Nonpolluting Ethylbenzene Process,
W76-05498 9-11 5D

MOBILE OIL CORP., N.Y. (ASSIGNEE).
Sorbent for Removal of Heavy Metals,
W76-04189 9-09 5D

MOFFAT AND NICHOLS, LONG BEACH, CALIF.
Small-Craft Harbors: Design, Construction, and Operation,
W76-02548 9-06 8A

MOFFAT AND NICHOLS, LONG BEACH, CALIF. COASTAL ENGINEERING DEPT.
Woven Plastic Cloth Filters for Stone Seawalls,
W76-07230 9-14 8C

MONASH UNIV., CLAYTON (AUSTRALIA).
Some Aspects of Stochastic Reservoir Theory,
W76-12197 9-23 4A

MONASH UNIV., CLAYTON (AUSTRALIA). DEPT. OF CIVIL ENGINEERING.
An Evaluation of Three Rainfall-Runoff Models,
W76-01419 9-03 2A

Streamflow in Catchment Modelling,
W76-04135 9-09 2E

Predictive Use of Catchment Outputs,
W76-04145 9-09 4A

MONASH UNIV., CLAYTON (AUSTRALIA). DEPT. OF MATHEMATICS.
A Simple Topographic Model of Gulf Stream Separation,
W76-06689 9-13 2L

MONASH UNIV., CLAYTON (AUSTRALIA). DEPT. OF MECHANICAL ENGINEERING.
Classification of Models of Tidal Waters,
W76-01481 9-03 2L

Classification of Models to Tidal Waters,
W76-01780 9-04 5B

Review of Models of Tidal Waters,
W76-02689 9-06 5B

Review of the Models of Tidal Waters,
W76-03798 9-08 5B

Rationale for a Water Pollution Code Part 1: The Waste System and the Natural System,
W76-08839 9-17 5G

MONASH UNIV., CLAYTON (AUSTRALIA). DEPT. OF ZOOLOGY.
Distribution of Fish in Inland Saline Waters in Victoria, Australia,
W76-06143 9-12 2H

Dynamics of Benthic Invertebrates in a Tropical Man Made Lake (Volta Lake 1964-1968): Standing Crop and Bathymetric Distribution,
W76-06144 9-12 5C

MONMOUTH COLL., WEST LONG BRANCH, N. J.
Bioassay Methods and Impact Evaluation of Ocean Disposal Sites,
W76-05087 9-11 5A

MONROE COUNTY COMMUNITY COLL., MICH.
Removal of Cadmium from Waters and Wastes by Sorption on Hydrous Metal Oxides for Water Treatment,
W76-00107 9-01 5D

MONSANTO RESEARCH CORP., DAYTON, OHIO. DAYTON LAB.
Analysis for Aqueous Nitrates and Nitrites and Gaseous Oxides of Nitrogen by Electron Capture Gas Chromatography,
W76-03707 9-08 5A

MONSANTO RESEARCH CORP., DURHAM, N.C.
Design, Construction, and Field Test Evaluation of a Hollow Fine Fiber Module,
W76-03156 9-07 3A

MONTANA AGRICULTURAL EXPERIMENT STATION, BOZEMAN, AND MONTANA STATE UNIV., BOZEMAN. DEPT. OF CHEMISTRY.
Orientation of Clay Particles as it Relates to Crusting of Soil,
W76-04097 9-09 2G

MONTANA BOARD OF HEALTH AND ENVIRONMENTAL SCIENCES, HELENA.
Montana Regulation on Water Pollution from Livestock Feeding.
W76-04383 9-09 5G

MONTANA COOPERATIVE FISHERY UNIT, BOZEMAN.
Evaluation of Stream Channelization and Mitigation on the Fishery Resources of the St. Regis River, Montana,
W76-11800 9-22 4C

MONTANA DEPT. OF AGRICULTURE, BOZEMAN. FEED AND FERTILIZER DIV.
Analysis of Feed Grains and Forages for Traces of Cobalt by Flameless Atomic Absorption Spectroscopy,
W76-03410 9-07 5A

MONTANA ENVIRONMENTAL QUALITY COUNCIL, HELENA.
Groundwater Seepage and its Effect On Saline Soils,
W76-02639 9-06 2G

Montana Environmental Policy Act,
W76-05218 9-11 6E

MONTANA FISH AND GAME DEPT., HELENA.
Repopulation of an Eradicated Stream Section by Brook Trout,
W76-03772 9-08 5C

MONTANA STATE DEPT. OF HEALTH, HELENA. WATER POLLUTION CONTROL SECTION.
Feedlot Pollution,
W76-01027 9-03 5E

MONTANA STATE UNIV., BOZEMAN. DEPT. OF AGRICULTURAL ENGINEERING.
Guidelines for Cattle Feedlot Design,
W76-04430 9-09 5G

Review of Research and Recommendations on Animal Waste Management Control Measures for Montana with Special Reference to Beef Cattle Feedlots,
W76-04431 9-09 5G

Effect of a Livestock Wintering Operation on a Western Mountain Stream,
W76-11059 9-20 5A

MONTANA STATE UNIV., BOZEMAN. DEPT. OF ANIMAL AND RANGE SCIENCES.
Effects of Surface Configuration in Water Pollution Control on Semiarid Surface Mined Lands,
W76-02726 9-06 5G

MONTANA STATE UNIV., BOZEMAN. DEPT. OF BIOLOGY.
Ecological Effects of Weather Modification: Effect of Late Snowmelt on Festuca Idahoensis Elmer Meadows,
W76-06756 9-13 3B

MONTANA STATE UNIV., BOZEMAN. DEPT. OF BOTANY AND MICROBIOLOGY.
Microbiology and Chemistry Studies of Water Quality Factors in a Watershed Used for Municipal Supply and Waste Disposal,
W76-10263 9-19 5B

Water Quality and Waste Disposal in Montana,
W76-12359 9-23 5C

MONTANA STATE UNIV., BOZEMAN DEPT. OF CIVIL ENGINEERING AND ENGINEERING MECHANICS.
The Recycling of Kraft Bleach Wastes,
W76-00051 9-01 5D

Leaching of Pollutants from Wood-Chip Slurry,
W76-04075 9-09 5D

Calibration of the State Water Planning Model for Sub-Basin 42-KJ of the Yellowstone River Basin,
W76-04232 9-09 4A

Land Treatment and Disposal of Municipal and Industrial Wastewater,
W76-11370 9-21 5D

Stress Concentration in Sloping Snowpack from Geometric Imperfections,
W76-13061 9-24 2C

MONTANA STATE UNIV., BOZEMAN. DEPT. OF ELECTRICAL ENGINEERING.
Application of Microwave Water Sensing Techniques to Watersheds,
W76-00675 9-02 7B

MONTANA STATE UNIV., BOZEMAN. DEPT. OF HISTORY, GOVERNMENT AND PHILOSOPHY.
Groundwater Property Rights and Controversies in Montana,
W76-12154 9-23 6E

MONTANA STATE UNIV., BOZEMAN. DEPT. OF MICROBIOLOGY.
Development of a Rapid and Simple Test for Bacteriological Water Quality Utlizing Limulus Lysate,
W76-00174 9-01 5A

Comparative Survival of Indicator Bacteria and Enteric Pathogens in Well Water,
W76-12194 9-23 5A

MONTANA STATE UNIV., BOZEMAN. FISHERIES BIOASSAY LAB.
Upper Yellowstone River Water Quality: August 1973 - August 1974,
W76-02638 9-06 5B

MONTANA UNIV., MISSOULA.
An In-Situ Study of the Sutrition of Lake Zooplankton Using Carbon 14 and Phosphorous 32, Flathead Lake, Montana,
W76-04231 9-09 5C

Plankton Micro-Fossils as Indicators of Paleotrophic Dynamism in Flathead Lake,
W76-04235 9-09 5C

MONTANA UNIV., MISSOULA. DEPT. OF CHEMISTRY.
Phenols in the Clark Fork River,
W76-03136 9-07 5B

MONTANA UNIV., MISSOULA. DEPT. OF POLITICAL SCIENCE.
Classical Writers of International Law and the Environment,
W76-06825 9-14 6E

MONTANA UNIV., MISSOULA, DEPT. OF ZOOLOGY.
Concentration of Heavy Metals in Sediments of a Hydroelectric Impoundment,
W76-09755 9-18 5A

MONTCLAIR STATE COLL., UPPER MONCLAIR, N. J. DEPT. OF BIOLOGY.
Antimicrobial-Resistant Coliforms in New York Bight,
W76-11590 9-21 5C

MONTCLAIR STATE COLL., UPPER MONTCLAIR, N.J. DEPT. OF BIOLOGY.
Acute Toxicity of a Native Mummichog Population (Fundulus Heteroclitus) to Mercury,
W76-05742 9-12 5C

MONTECO ENVIRONMENTAL MANAGEMENT ASSOCIATES, MONTGOMERY, N.Y.
Inhibition of Nitrification by Ammonia and Nitrous Acid,
W76-11197 9-21 5D

MONTGOMERY (JAMES M.), INC., PASADENA, CALIF.
Horizontal Spread of Wastewater Field Over Calm Ocean Surface,
W76-02687 9-06 5B

MONTGOMERY (JAMES M.), INC., PASADENA, CALIF. WATER TREATMENT DIV.
Design and Operation of High-Rate Filters-Part 1,
W76-03665 9-08 5D

Design and Operation of High-Rate Filters--Part 2,
W76-05831 9-12 5D

Design and Operation of High-Rate Filters--Part 3,
W76-05832 9-12 5F

MONTGOMERY (JAMES M.), PASADENA, CALIF.
Horizontal Spread of Wastewater Field Over Calm Ocean Surface,
W76-06294 9-13 5B

MONTGOMERY WATER AND SANITARY SEWER BOARD, ALA.
Insertion of Polyethylene Pipe Renews Damaged Sewer,
W76-01050 9-03 8A

MONTPELLIER-2 UNIV., (FRANCE). LABORATOIRE DE GENIE CHIMIQUE.
Representation of Macroscopic Flow in an Aeration Basin by a Cascade Formed by Two Unequal Perfect Mixers (Representation De L'Ecoulement Macroscopic Dans un Bassin D'Aeration Par une Cascade De Deux Melangeurs Parfaits Inegaux),
W76-01778 9-04 5D

Development of a Measurement Method for the Total Activity Rate of Activated Sludge (Contribution a La Mise Au Point D'une Methode De Mesure Du Taux D'Activite Totale Des Boues Activees),
W76-09695 9-18 5D

MONTREAL ENGINEERING COMPANY LIMITED, FREDERICTON, NEW BRUNSWICK, CANADA, WATER RESOURCES AND ENVIRONMENTAL DIVISION.
The Tailings Pond as a Waste Treatment Systems,
W76-04213 9-09 5D

MONTREAL UNIV., (QUEBEC). DEPT. OF BIOLOGY.
Blood and Liver Enzymes in Rainbow Trout (Salmo Gairdneri Rich) with Emphasis on Their

Diagnostic use: Study of CC14 Toxicity and a Case of Aeromonas Infection,
W76-03034 9-07 5C

MONTREAL UNIV. (QUEBEC). DEPT. OF MATHEMATICS.
A Stochastic Model of Dispersion of Sediment Particles Released from A Continuous Source,
W76-05663 9-12 2J

MOODY AND ASSOCIATES, INC., COLUMBUS, OHIO.
Well Field Maintenance Avoids Crises,
W76-10103 9-19 8G

MOODY AND ASSOCIATES, INC., MEADVILLE. PA. ENVIRONMENTAL SERVICES DIV.
Evaluation Procedure of Critical Factors of Mining Impact on Ground Water Resources,
W76-06941 9-14 5G

MOODY COLL. OF MARINE SCIENCES AND MARITIME RESEARCH, GALVESTON, TEX. DEPT. OF MARINE SCIENCES.
Growth and Mortality of Two Groups of Oysters, (Crassostrea Virginica Gmelin), Maintained in Cooling Water at an Estuarine Electric Power Generating Station,
W76-12726 9-24 5C

MOODYS OF DAYTON, INC., MIAMISBURG, OHIO.
Variable Speed Pumping has many Advantages,
W76-11914 9-22 8C

MORDOVIA STATE UNIV., SARANSK (USSR).
Feeding of Two Frog Species in Fishery Ponds of the Mordovian Assr, (In Russian),
W76-02600 9-06 2I

MORGAN, LEWIS AND BOCKIUS, WASHINGTON, D. C.
The Role of the Coastal Zone Management Act of 1972 in the Development of Oil and Gas from the Outer Continental Shelf,
W76-10734 9-20 5G

MORRELL (JOHN) AND CO., OTTUMWA, IOWA.
Morrell Pioneers More Efficient Aeration,
W76-08286 9-16 5D

MORSE BOULGER, INC., FLUSHING, N.Y. (ASSIGNEE).
Incenerator for Raw Sewage,
W76-00580 9-02 5E

MORSKI INSTYTUT RYBACKI, GDYNIA (POLAND).
The Baltic Sea Pollution,
W76-11185 9-21 5C

Ecology of the Littoral Polychaete Streptosyllis Websteri, A New Species in the Baltic,
W76-11186 9-21 5B

MOSCOW STATE UNIV., (USSR).
Carp Triethyl Chloride Absorption from Water; Its Distribution in Organs and Tissues, (In Russian),
W76-07264 9-14 5C

Effect of Triethyltin Chloride on the Incorporation of Inorganic Carbon (NaHC14O3) from the Environment into Carp Metabolic Processes, (In Russsian),
W76-11732 9-22 5C

MOSCOW STATE UNIV. (USSR). DEPT. OF HYDROBIOLOGY.
Relation Between Generation Time and Biomass of Phytoplankton, (In Russian),
W76-11577 9-21 5C

MOSCOW STATE UNIV. (USSR). DEPT. OF ICHTHYOLOGY.
Some Characteristics of Fat Metabolism in Two Forms of Char Salvelinus Alpinus (L.) From Lake Azabach (Kamchatka), (In Russian),
W76-08310 9-16 2H

Role of Far Eastern Herbivorous Fish in Ecosystems of Natural Water Bodies Used for Acclimatization, (In Russian),
W76-08666 9-16 5C

MOSCOW STATE UNIV. (USSR). DEPT. OF INVERTEBRATE ZOOLOGY.
Invertebrate Fauna of the Lakes of the Lower Tareya River (Western Taimyr), (In Russian),
W76-11537 9-21 5C

MOSCOW STATE UNIV. (USSR). DEPT. OF MICROBIOLOGY.
Petroleum-Oxidizing Bacteria from the Gulf of Finland, (In Russian),
W76-06788 9-13 5C

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Effect of the Mozhaysk Reservoir on Soil of the Bank Area of the Surrounding Territory, (In Russian),
W76-09081 9-17 2G

MOSCOW STATE UNIV. (USSR). DEPT. OF SOIL PHYSICS AND RECLAMATION.
Effect of an Electric Current on Water Stability of the Structure of Salinized Solonetz, (In Russian),
W76-09804 9-18 2G

Method of Evaluating the Effectiveness of Techniques for Increasing the Resistance of Soils to Erosion, (In Russian),
W76-09805 9-18 4D

MOSCOW STATE UNIV. (USSR). DEPT. OF SOIL SCIENCE.
Micromorphology of Hydromorphic Soils of Irrawaddy River Delta, (In Russian),
W76-07273 9-14 2G

Characteristics of the Quality of Irrigation Water on the Bagaevsk-Sadkovsk Irrigation System, (In Russian),
W76-11566 9-21 5B

MOSCOW STATE UNIV. (USSR). FACULTY OF BIOLOGY AND SOIL.
Diffusion of Mineral Ions Through the Wall of Nitella Cells,
W76-05477 9-11 5C

MOSCOW STATE UNIV. (USSR). FACULTY OF BIOLOGY AND SOIL SCIENCE; AND MOSCOW STATE UNIV. (USSR). DEPT. OF INVERTEBRATE ZOOLOGY.
Method of Studying the Spatial Distribution of Organisms, (In Russian),
W76-08176 9-16 7B

MOSKOVSKAYA SELSKOKHOZYAISTVENNAYA AKADEMIYA (USSR).
The Water Supply System of Soil and Nitrogen Loss with Runoff Waters in Nonchernozem Areas, (In Russian),
W76-09794 9-18 2G

Dependence of Pasture Grass Yield on Soil Moisture Level, (In Russian),
W76-09930 9-18 4A

MOSKOVSKII GOSUDARSTVENNYI MEDITSINAKII INSTITUT (I) (USSR). DEPT. OF PUBLIC HYGIENE.
The Significance of Isomery in Hygienic Standardization of Industrial Contaminations of Water Bodies, (In Russian),
W76-08864 9-17 5A

MOSKOVSKII GOSUDARSTVENNYI MEDITSINSKII INSTITUT (I) (USSR).
Re-Use of Municipal Sewage for Purposes of Sanitary Protection of Water Bodies, (In Russian),
W76-02614 9-06 5D

Hygienic Standardization of Tin Dibutyl Diisooctylthioglycolate in Water Bodies, (In Russian),
W76-09797 9-18 5C

A New Standard 'Drinking Water' (Gost 2874-73) and Its Scientific Basis, (In Russian),
W76-12317 9-23 5G

MOSKOVSKII GOSUDARSTVENNYI MEDITSINSKII INSTITUT (I) (USSR). DEPT. OF GENERAL HYGIENE.
Isolation of Salmonella from Sewage and Surface Waters, (In Russian),
W76-09411 9-18 5A

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Hygienic Evaluation of Electrodialysis Water Desalination Set Up, (In Russian),
W76-12394 9-23 5D

MOSKOVSKII GOSUDARSTVENNYI MEDITSINSKII INSTITUT (I) (USSR). DEPT. OF PUBLIC HYGIENE; AND MOSKOVSKII GOSUDARSTVENNYI MEDITSINSKII INSTITUT (I) (USSR). DEPT. OF GENERAL HYGIENE.
Isolation of Parasitic and Saprophytic Strains of Bdellovibrio Bacteriovorus from Natural Waters, (In Russian),
W76-12262 9-23 5A

MOSKOVSKII INZHENERNO-STROITELNYI INSTITUT (USSR). DEPT. OF HYDRAULIC ENGINEERING STRUCTURES.
Calculating Temperature Regime of Earth Dams in Permafrost Regions,
W76-06191 9-13 8D

MOSS LANDING MARINE LABS., CALIF.
Cadmium in Plankton: Elevated Concentrations Off Baja California,
W76-03021 9-07 5B

MOTOR-COLUMBUS CONSULTING ENGINEERS INC., BADEN(SWITZERLAND).
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W76-04815 9-10 5B

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W76-08852 9-17 5B

Synergistic Effects of Airborne Emissions from Nuclear Power Plants,
W76-09503 9-18 5A

MOUND LAB., MIAMISBURG, OHIO.
Tritium Effluent Control Project, Progress Report: July - September 1975,
W76-12779 9-24 5D

Tritium Effluent Control Project, Progress Report: January - March 1975,
W76-12780 9-24 5D

Tritium Effluent Control Project, Progress Report: October - December 1974,
W76-12781 9-24 5G

Tritium Effluent Control Project, Progress Report: April - June 1975,
W76-12782 9-24 5G

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W76-06142 9-12 5C

MOUNT AUBURN RESEARCH ASSOCIATES, INC., NEWTON UPPER FALLS, MASS.
A Numerical Model of Droplet Entrainment From a Contained Oil Slick,
W76-03102 9-07 5B

MOUNT ROGERS PLANNING DISTRICT COMMISSION, MARION, VA.
Nonparametric Statistical Analysis of Annual Peak Flow Data from a Recently Urbanized Watershed,
W76-08522 9-16 4C

MOUNT SINAI SCHOOL OF MEDICINE, NEW YORK.
The Effect of Lead on Mouse Brain Development,
W76-09038 9-17 5C

MULTI-FLO, INC., DAYTON, OHIO. (ASSIGNEE)
Package Aerobic Waste Treatment System,
W76-04280 9-09 5D

MULTNOMAH COUNTY DIV. OF PLANNING AND DEVELOPMENT, PORTLAND, OREG.
Flow Forecasting for the Bull Run Watershed,
W76-03109 9-07 4D

MUNICH UNIV. (WEST GERMANY). INSTITUT FUER TIERPHYSIOLOGIE.
Pesticide and PCB Residue in Organs of Wild Animals as Indicators of Environmental Contamination, (In German),
W76-09922 9-18 5A

MUNICIPAL ENVIRONMENTAL RESEARCH LAB., CINCINNATI, OHIO.
An Alternative Septage Treatment Method: Lime Stabilization/Sand-Bed Dewatering,
W76-02759 9-06 5D

Interim Report on the Impact of Public Law 92-500 on Municipal Pollution Control Technology,
W76-05867 9-12 5D

Models for Evaluation of Hazardous Wastes,
W76-10190 9-19 5B

Improving the Fuel Value of Sewage Sludge,
W76-10234 9-19 5E

Analyzing for Asbestos in Drinking Water,
W76-10240 9-19 5A

Land Disposal of Wastes: Potential for Groundwater Pollution,
W76-10667 9-20 5E

Pesticide Incineration,
W76-10675 9-20 5E

Do Regulated Freight Rates Discourage Recycling,
W76-10676 9-20 5G

Tertiary Treatment for Phosphorus Removal at Ely, Minnesota Awt Plant, April, 1973 thru March, 1974.
W76-12863 9-24 5D

Handbook for Evaluating Water Bacteriological Laboratories,
W76-12869 9-24 5A

Instrumentation and Automation of Wastewater Collection and Treatment Systems, (Literature Review),
W76-12901 9-24 5D

MUNICIPAL ENVIRONMENTAL RESEARCH LAB., CINCINNATI, OHIO. WASTEWATER RESEARCH DIV.
Water Reclamation and Reuse, (Literature Review),
W76-12677 9-24 5D

MUNICIPAL ENVIRONMENTAL RESEARCH LAB., CINCINNATI, OHIO. WATER SUPPLY RESEARCH DIV.
Chlorination of Organics in Drinking Water,
W76-12881 9-24 5C

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Give Stormwater Pollutants the Spin,
W76-09461 9-18 5D

Urban Runoff Pollution Control Program Overview: FY'76,
W76-12857 9-24 5G

MUNICIPAL ENVIRONMENTAL RESEARCH LABORATORY. CINCINNATI, OHIO.
Comparative Effects of Chemical Pretreatment on Carbon Adsorption,
W76-11209 9-21 5D

MUNICIPAL SANITARY-EPIDEMIOLOGICAL CENTER, MOSCOW (USSR).
Hygienic and Toxicological Evaluation of Some Grades of Rubber used in Domestic Water Supply Systems, (In Russian),
W76-12252 9-23 5C

MUNICIPALITY OF METROPOLITAN SEATTLE, WASH.
Ultrasonics in the Sewage Industry,
W76-08018 9-15 5D

MUNICIPALITY OF METROPOLITAN SEATTLE, WASH. WATER QUALITY LAB.
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W76-08442 9-16 5C

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Significance of Vitamine B12 in Marine Biocenoses, (In Russian),
W76-02719 9-06 5A

Variations in the Hydrochemical Regime of the Coastal Waters in Winter Influenced by Macrophytes, (In Russian),
W76-03305 9-07 5C

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W76-08574 9-16 7B

MUSEU RIO-GRANDENSE CIENCIAS NAT., PORTO ALEGRE. (BRAZIL).
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W76-12318 9-23 5A

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First Observations on the Forest of Cameroon on Sandy Coastal Cordons, (In French)
W76-09100 9-17 2I

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Ecotoxicology of Crude Oils and the Use of Experimental Marine Ecosystems,
W76-11586 9-21 5C

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The Effects of Three Anti-Petroleum Agents on the Primary Productivity of an Experimental Community of Benthic Diatoms, (In French),
W76-07317 9-14 5C

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Observations on Phytoplankton and Primary Production in the Region of the Arguin Bank (Mauritania) in April and May 1972, (In French),
W76-05229 9-11 5C

Quantitative Aspect of the Phytoplankton of the Bay Du Levrier (Mauritania), (In French),
W76-09987 9-18 5C

MYRENS VERKSTED A/S, OSLO (NORWAY). (ASSIGNEE).
Process and Apparatus for the Incineration of Aqueous Sewage Sludge,
W76-09428 9-18 5E

N L INDUSTRIES, INC., HOUSTON, TEX. BAROID DIV.
Drilling Fluid Principles and Operations,
W76-08893 9-17 8G

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Biological Availability of Mercury in Swordfish (Xiphias Gladius),
W76-07694 9-15 5C

NAGASAKI UNIV., (JAPAN) FACULTY OF FISHERIES.
On Occurrence of Similar Organisms to Gymnodinium Breve Davis in Omura Bay, (In Japanese),
W76-00341 9-01 5B

Effect of Anaerobic Conditions in Bottom Waters on the Occurrence of Red Tides at Omura Bay,
W76-07101 9-14 5C

NAGOYA UNIV. (JAPAN). BIOLOGICAL INST.
Studies on Phosphorylation Coupled with Denitrification and Aerobic Respiration in Pseudomonas Denitrificans,
W76-08823 9-17 5C

Studies on the Metabolism of a Sulfur-Oxidizing Bacterium. VII. Purification and Characterization of Soluble Components Indispensables for Sulfur Oxidation by Thiobacillus Thiooxidans,
W76-09592 9-18 5C

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Biodegradation of Components of Pulp Waste Effluents by Bacteria, (2) On the Degradation of Lignin Sulfonates,
W76-05485 9-11 5D

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Changes in the Limnological Features of a Meromictic Lake Suigetsu During the Years, 1926-1967,
W76-06018 9-12 2H

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W76-10840 9-20 5D

NAGS HEAD TOWN COUNCIL, N. C.
Certain Land Use Regulations to Protect from Danger of Flooding.
W76-06059 9-12 6F

NAIGAI KOGYO KABUSHIKI KAISHA, TOKYO (JAPAN). (ASSIGNEE).
Apparatus for Dissolving Large Quantities of Oxygen in Water,
W76-00570 9-02 5D

NALCO CHEMICAL CO., CHICAGO, ILL.
Economical Foam Control in Wastewater Treatment Systems,
W76-08249 9-16 5D

NALCO CHEMICAL CO., CHICAGO, ILL. (ASSIGNEE).
Controlling Evaporation of Water,
W76-03506 9-08 3B

NALCO CHEMICAL CO., CHICAGO, ILL. NALCO CONSULTING SERVICES.
Aerobic Treatment of Textile Wastes,
W76-04064 9-09 5D

NALCO CHEMICAL CO., OAK BROOK, ILL. (ASSIGNEE).
Cationic Polymers for Breaking Oil-In-Water Emulsions,
W76-11449 9-21 5D

NALCO ENVIRONMENTAL SCIENCES, NORTHBROOK, ILL.
Algal Nutritional Bioassays of Lake Wylie, North Carolina.
W76-06703 9-13 5C

NALCO ENVIRONMENTAL SCIENCES, NORTHBROOK, ILL. PHYSICAL SCIENCE DIV.
Numerical Prediction of Thermal-Regime of Rivers,
W76-08739 9-16 5B

NANCY UNIV. (FRANCE).
Microbiological and Algological Survey of A Primary Stage of Eutrophication in a Stream, (In French),
W76-09399 9-17 5C

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Tracer Experiments on the Effect of Micronutrients on the Growth of Porphyra Plants-II Manganese-54 and Zinc-65 Assimilation in Relation to Environmental Factors,
W76-01916 9-04 5C

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W76-01917 9-04 5C

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Water Balance and Water Resources In China,
W76-00314 9-01 2A

NAPLES ZOOLOGICAL STATION (ITALY).
Preliminary Note on the Algal Population of the Sciophilous Surface Biotopes in the Exposed Mode, of the Island of Linosa (Strait of Sicily, Italy), (In French),
W76-07952 9-15 2L

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Sewerage Project on Upstream Area of the Yamato River,
W76-09168 9-17 5D

NARA WOMEN'S UNIV. (JAPAN). ZOOLOGICAL INST.
Marked Diminution of Dissolved Oxygen in the Hypolimnion of Lake Biwa in August, 1973, (In Japanese),
W76-10976 9-20 5C

NASSAU COUNTY HEALTH DEPT. MINEOLA, N.Y. ENVIRONMENTAL CONSERVATION PROGRAMS.
Effect of Cesspool Discharge on Ground-Water Quality on Long Island, N.Y.,
W76-00308 9-01 5B

NASSAU-SUFFOLK REGIONAL PLANNING BOARD, N. Y.
Models for Implementing the CZMA's Concept of State-Local Relations,
W76-07803 9-15 6E

NATAL PARKS BOARD, PIETERMARITZBURG, (SOUTH AFRICA).
Laboratory and Field Tests in the Revival of Fish Affected by Rotenone,
W76-09994 9-18 5C

NATAL UNIV., DURBAN (SOUTH AFRICA). DEPT. OF CIVIL ENGINEERING.
A Method of Finding the Family of Runhydrographs for Given Return Periods,
W76-12195 9-23 2E

NATHAN (ROBERT R.) ASSOCIATES, INC., WASHINGTON, D.C.
Who Will Pay for Pollution Control.--The Distribution by Income of the Burden of the National Environmental Protection Program, 1972-1980,
W76-02376 9-05 5G

NATIONAL ACADEMY OF SCIENCES, WASHINGTON, D.C.
An International Centre for Manatee Research.
W76-05433 9-11 4A

Assessing Potential Ocean Pollutants,
W76-09889 9-18 5G

Background Papers for a Workshop on Inputs, Fates, and Effects of Petroleum in the Marine Environment, Volume II.
W76-11007 9-20 5C

NATIONAL ACADEMY OF SCIENCES, WASHINGTON, D.C.; NATIONAL COMMITTEE FOR THE INTERNATIONAL HYDROLOGICAL DECADE, WASHINGTON, D.C.
Nuclear Techniques in Hydrology--Current Status and Prospective Uses.
W76-05922 9-12 5A

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, BAY SAINT LOUIS, MISS. EARTH RESOURCES LAB.
Evaluation of Remote Sensing and Automatic Data Techniques for Characterization of Wetlands,
W76-02038 9-05 7C

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, CLEVELAND, OHIO, LEWIS RESEARCH CENTER.
Controlled Generation of Large Volumes of Atmospheric Clouds in a Ground-Based Environmental Chamber,
W76-02686 9-06 2B

Measurement of Lake Ice Thickness with a Short-Pulse Radar System,
W76-11753 9-22 7B

Remote Sensing Study of Maumee River Effects on Lake Erie,
W76-12819 9-24 5A

Preliminary Assessment of Systems for Deriving Liquid and Gaseous Fuels from Waste or Grown Organics,
W76-12967 9-24 5D

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, GREENBELT, MD. GODDARD SPACE FLIGHT CENTER.
ERTS-1 Flood Hazard Studies in the Mississippi River Basin,
W76-02033 9-05 7B

Ice Thickness Distribution as Inferred from Infrared and Microwave Remote Sensing During the Bering Sea Experiment,
W76-04996 9-10 2C

Satellites--New Global Observing Techniques for Ice and Snow,
W76-05396 9-11 7B

Seasonal Streamflow Estimation Employing Satellite Snowcover Observations,
W76-06638 9-13 4A

Meteorological Interpretations of the Images from the Nimbus 5 Electrically Scanned Microwave Radiometer,
W76-07071 9-14 2B

Extraction and Utilization of Space Acquired Physiographic Data for Water Resources Development,
W76-07566 9-15 4D

Applications of Remote Sensing to Watershed Management,
W76-07791 9-15 4A

Study of the Lower Stratospheric Thermal Structure and Total Ozone from Nimbus-4 IRIS,
W76-12184 9-23 2B

Satellite Snow Observations and Seasonal Streamflow Forecasts,
W76-12468 9-23 2C

Results of Soil Moisture Flights During April 1974,
W76-13178 9-24 2G

An Analysis of the Errors Associated with the Determination of Atmospheric Temperature from Atmospheric Pressure and Density Data,
W76-13179 9-24 2B

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, GREENBELT, MD. GODDARD SPACE FLIGHT CENTER MD.

Extraction and Utilization of Space Acquired Physiographic Data for Water Resources Development,
W76-04953 9-10 4A

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, HOUSTON, TEX. LYNDON B. JOHNSON SPACE CENTER.

ERTS-1 Data in Support of the National Program of Inspection of Dams,
W76-02029 9-05 7C

Landsat, A Satellite Surface Water Divining Rod,
W76-02162 9-05 7C

Application of Remotely Sensed Multispectral Data to Automated Analysis of Marshland Vegetation,
W76-11754 9-22 2L

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, LANGLEY STATION, VA. LANGLEY RESEARCH CENTER.

A Generalized Tensor Formulation of Atmosphere and Seas Dynamics,
W76-04317 9-09 2A

A Simulation of Water Pollution Model Parameter Estimation,
W76-10021 9-19 5B

Analytical Notes--Electrochemical Method for Early Detection and Monitoring of Coliforms,
W76-10237 9-19 5A

Evaluation of Water Samples Collected During LANDSAT-1 Overpasses of the Lower Chesapeake Bay Area,
W76-10672 9-20 5A

Broadband Spectral Photography of the James River,
W76-13180 9-24 5A

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, MOFFETT FIELD, CALIF. AMES RESEARCH CENTER.

Water Purification Membranes and Method of Preparation,
W76-03171 9-07 5D

A Centrifugal Method for the Evaluation of Polymer Membranes for Reverse Osmosis,
W76-04186 9-09 5D

The National Environmental Policy Acts First Five Years,
W76-06490 9-13 6G

Electromagnetic Reflection from Multi-Layered Snow Models,
W76-07780 9-15 2C

Physiologic Responses to Water Immersion in Man: A Compendium of Research,
W76-09655 9-18 10C

Snow Wetness Measurements for Melt Forecasting,
W76-12165 9-23 2C

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The Salinity Effect in a Mixed Layer Ocean Model,
W76-06393 9-13 2L

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, WALLOPS ISLAND, VA. WALLOPS FLIGHT CENTER.

Development of an Airborne Laser Bathymeter,
W76-11755 9-22 7B

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Mapping and Identification of Oil on Water by the Use of an Airborne Laser System,
W76-10384 9-19 5B

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Third Earth Resources Technology Satellite-1 Symposium Volume 1: Technical Presentations, Section B.
W76-02026 9-05 7B

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Principles of Sewage Treatment Through Utilization in Fish Ponds,
W76-03576 9-08 5D

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Water Pollution Control Act of 1972, Economic Impacts, Metal Finishing Industry,
W76-10556 9-20 5G

Water Pollution Control Act of 1972, Economic Impacts, Iron and Steel Industry,
W76-10557 9-20 5G

Water Pollution Control Act of 1972, Economic Impacts, Pulp and Paper Industry,
W76-10559 9-20 5G

Water Pollution Control Act of 1972, Economic Impacts, Petroleum Refining Industry,
W76-10560 9-20 5G

Water Pollution Control Act of 1972, Economic Impacts, Plant Closures.
W76-10563 9-20 5G

Water Pollution Control Act of 1972, Economic Impacts, Non-Ferrous Metals Industry,
W76-10565 9-20 5G

Water Pollution Control Act of 1972, Economic Impacts, Textile Industry.
W76-10566 9-20 5G

NATIONAL BUREAU OF ECONOMIC RESEARCH, INC., WASHINGTON, D.C.

Changing Water Use In Selected Manufacturing Industries,
W76-03284 9-07 3E

NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C.

Capacities of Stacks in Sanitary Drainage Systems for Buildings,
W76-02201 9-05 8B

Investigation of the Hydraulics of Horizontal Drains in Plumbing Systems,
W76-02218 9-05 8B

Natural Disasters: Some Empirical and Economic Considerations,
W76-02625 9-06 6C

An Instrument with Internal Calibration for Monitoring Chlorine Residuals in Natural Waters,
W76-10028 9-19 5A

Pollutant Analysis Cost Survey,
W76-10259 9-19 5A

Review of Standards and Other Information on Thermoplastic Piping in Residential Plumbing,
W76-11603 9-21 8G

NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C. BUILDING ECONOMICS SECTION.

Analysis of Cost Sharing Programs for Pollution Abatement of Municipal Wastewater,
W76-02379 9-05 5G

'Cost Sharing for Recreation: Efficiency and Equity': Comment,
W76-03535 9-08 6C

Cost Sharing to Induce Efficient Techniques of Abating Wastewater Pollution,
W76-11135 9-21 5G

NATIONAL BUREAU OF STANDARDS, WASHINGTON, D. C. CENTER FOR BUILDING TECHNOLOGY.

An Evaluation of the Applicability of Pyrolysis-Gas-Liquid Chromatography for the Identification of Microorganisms in Water and Sewage Treatment Plant Effluents,
W76-11664 9-22 5A

NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C., INST. FOR BASIC STANDARDS.

A Guide to Methods and Standards for the Measurement of Water Flow,
W76-13000 9-24 8B

NATIONAL BUREAU OF STANDARDS, WASHINGTON, D.C., INST. FOR MATERIALS RESEARCH.

Determination of Aromatic Hydrocarbons in Sea Water using an Electrolytic Stripping Cell,
W76-10390 9-19 5A

Fluorescence Measurements of Carcinogenic and Polycyclic Aromatic Hydrocarbons in Water,
W76-11243 9-21 5A

NATIONAL BUREAU OF STANDARDS, WASHINGTON, D. C., MECHANICS DIV.
Performance Characteristics of 'Bulk Effect' Humidity Sensors,
W76-00886 9-02 7B

NATIONAL CACER INST., BETHESDA, MD.
Origin, Classification and Distribution of Chemicals in Drinking Water With an Assessment of Their Carcinogenic Potential,
W76-12886 9-24 5C

NATIONAL CANCER INST., BETHESDA, MD.
The Epidemiologic Approach to the Evaluation of Water-Borne Carcinogens,
W76-12888 9-24 5C

NATIONAL CANNERS ASSOCIATION, BERKELEY, CALIF. WESTERN RESEARCH LAB.
In-Plant Hot-Gas Blanching of Vegetables,
W76-04743 9-10 3E

NATIONAL CENTER FOR ATMOSPHERIC RESEARCH, BOULDER, COLO.
A Photographic Technique for Measurements of Atmospheric Particles in Situ from Aircraft,
W76-01472 9-03 2B

Recent Developments in Dynnamical Oceanography,
W76-04956 9-10 2L

Warm Rain, Giant Nuclei and Chemical Balance-A Numerical Model,
W76-07549 9-15 2B

NATIONAL CENTER FOR RESOURCE RECOVERY, INC., WASHINGTON, D. C.
Specifications for Materials Recovered From Municipal Refuse,
W76-00684 9-02 5D

NATIONAL CENTER FOR SCIENTIFIC AND TECHNICAL DOCUMENTATION, BRUSSELS (BELGIUM).
Books on Water and Wastewater.
W76-06816 9-14 10C

NATIONAL CENTER FOR TOXICOLOGICAL RESEARCH, JEFFERSON, ARK.
Removal of Trace Levels of 2-Acetylaminofluorene (2-AAF) from Wastewater,
W76-05117 9-11 5D

NATIONAL COMMISSION ON WATER QUALITY, WASHINGTON, D. C.
Report to the Congress by the National Commission on Water Quality,
W76-09663 9-18 5G

NATIONAL COMMISSION ON WATER QUALITY, WASHINGTON, D. C. ENVIRONMENTAL SCIENCES SECTOR.
Public Law 92-500-- Water Quality Analysis and Environmental Impact Assessment, Technical Report (Volume I),
W76-11806 9-22 5G

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W76-11807 9-22 5G

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W76-11780 9-22 5G

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W76-00536 9-02 10C

NATIONAL COUNCIL FOR AIR AND STREAM IMPROVEMENT, GAINESVILLE, FLA. SOUTHERN RESEARCH CENTER.
Development of Improved Procedures for Measurement of Mill Effluent and Receiving Water Color,
W76-00040 9-01 5A

NATIONAL COUNCIL OF THE PAPER INDUSTRY FOR AIR AND STREAM IMPROVEMENT, INC., KALAMAZOO, MICH. CENTRAL-LAKE STATES REGIONAL CENTER.
Effect of Bark Addition Upon the Dewatering Properties of Biological Sludges,
W76-00043 9-01 5D

Comparative Study of Thermal Techniques for Secondary Sludge Conditioning,
W76-00046 9-01 5D

A Statistical Documentation of the Performance of Activated Sludge and Aerated Stabilization Basin Systems Operating in the Paper Industry,
W76-00047 9-01 5D

Water Quality-Limited Approach to Effluent Reduction in Paper Manufacture,
W76-00048 9-01 5G

NATIONAL COUNCIL OF THE PAPER INDUSTRY FOR AIR AND STREAM IMPROVEMENT, INC., MEDFORD, MASS.
Current Status of Paper Reprocessing Effluent Characteristics and Disposal Practices,
W76-02468 9-05 5D

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A Preliminary Review of Analytical Methods for the Determination of Suspended Solids in Paper Industry Effluents for Compliance with EPA-NPDES Permit Terms.
W76-04627 9-10 5A

Study to Define Changes in Pulp Mill Effluent-Contributed Color in Receiving Waters Detectable by Human Observers,
W76-09276 9-17 5C

A Summary of Receiving Water Dissolved Oxygen Conditions below Pulp and Paper Mill Locations,
W76-12480 9-23 5B

NATIONAL ECOLOGICAL RESEARCH LAB., CORVALLIS, OREG.
Some Effects of Cadmium on Coniferous Forest Soil/Litter Microcosms,
W76-01862 9-04 5B

Chemical/Biological Relationships Relevant to Ecological Effects of Acid Rainfall,
W76-06650 9-13 5A

NATIONAL ENVIRONMENT RESEARCH CENTER, CINCINNATI, OHIO. ADVANCED WASTE TREATMENT RESEARCH LAB.
Instrumentation and Automation of Wastewater Treatment Systems, (Literature Review),
W76-00364 9-01 5D

NATIONAL ENVIRONMENTAL ENGINEERING RESEARCH INST., NAGPUR (INDIA).
Shallow Depth Sedimentation-A Rational Approach to Water and Wastewater Clarification,
W76-00263 9-01 5D

Defluoridation of Water by Nalgonda Technique,
W76-01543 9-04 5F

Water Pollution and its Control at Oil Refineries,
W76-04025 9-09 5D

Techniques for Power Measurement for Surface Aerator,
W76-10251 9-19 5D

NATIONAL ENVIRONMENTAL RESEARCH CENTER, CINCINNATI, OHIO.
Nerc 74, Annual Report.
W76-00879 9-02 5G

Promising Technologies for Treatment of Hazardous Wastes,
W76-01219 9-03 5D

Pricing for Water Supply: Its Impact on Systems Management,
W76-04545 9-10 5G

Cost-Effectiveness Analysis for Water Pollution Control,
W76-05324 9-11 5D

Ammonia Removal from Wastewater by Ligand Exchange,
W76-12611 9-23 5D

Viruses in Waste, Renovated, and Other Waters. 1974 Literature Abstracts,
W76-13095 9-24 5D

NATIONAL ENVIRONMENTAL RESEARCH CENTER, CINCINNATI, OHIO. ADVANCED WASTE TREATMENT LAB.
The Effect of Incineration on Metals, Pesticides, and Polychlorinated Biphenyls in Sewage Sludge,
W76-03845 9-08 5D

NATIONAL ENVIRONMENTAL RESEARCH CENTER, CINCINNATI, OHIO, ADVANCED WASTE TREATMENT RESEARCH LAB.
Trace Elements in Corn Grown on Long-Term Sludge Disposal Site,
W76-00359 9-01 5B

Infiltration--Inflow Analysis,
W76-02170 9-05 5D

The Meaning of Ultimate Disposal,
W76-03833 9-08 5E

Elemental Analysis of Wastewater Sludges from 33 Wastewater Treatment Plants in the United States,
W76-05080 9-11 5D

The Meaning of Ultimate Disposal,
W76-07240 9-14 5E

Overview of Sludge Handling and Disposal,
W76-07241 9-14 5E

Thermal Degradation of Sludges,
W76-07242 9-14 5E

Thickening Characteristics of Aluminum and Iron Primary Sewage Sludges,
W76-07243 9-14 5E

Methods for Reducing the Infection Hazard of Waste-Water Sludge,
W76-09514 9-18 5D

Biological Filters, (Literature Review),
W76-12674 9-23 5D

NATIONAL ENVIRONMENTAL RESEARCH CENTER, CINCINNATI, OHIO. ADVANCED WATER TREATMENT RESEARCH LAB.
Review of EPA Research and Development Lagoon Upgrading Program for Fiscal Years 1973, 1974, and 1975,
W76-07048 9-14 5D

NATIONAL ENVIRONMENTAL RESEARCH CENTER, CINCINNATI, OHIO. ANALYTICAL QUALITY CONTROL LAB.
Analysis of the Polychlorinated Biphenyl Problem, Application of Gas Chromatography-Mass Spectrometry with Computer Controlled Repetitive Data Acquisition from Selected Specific Ions,
W76-07709 9-15 5A

NATIONAL ENVIRONMENTAL RESEARCH CENTER, CINCINNATI, OHIO. WATER SUPPLY RESEARCH LAB.
Apparatus for Conditioning Unlimited Quantities of Finished Waters for Enteric Virus Detection,
W76-12168 9-23 5A

NATIONAL ENVIRONMENTAL RESEARCH CENTER, COLLEGE, ALASKA. ARCTIC ENVIRONMENTAL RESEARCH LAB.
Effects of Forest Fertilization on Two Southeast Alaska Streams,
W76-08673 9-16 5B

Effects of Large Scale Forest Fires on Water Quality in Interior Alaska,
W76-10045 9-19 5C

NATIONAL ENVIRONMENTAL RESEARCH CENTER, CORVALLIS, OREG.
Report to International Joint Commission, United States and Canada, Great Lakes Water Quality,Status of Pertinent EPA Research,
W76-02451 9-05 5G

Small Meat-Packers Wastes Treatment Systems,
W76-04747 9-10 5D

NATIONAL ENVIRONMENTAL RESEARCH CENTER, GIG HARBOR, WASH. NORTHWEST WATER SUPPLY RESEARCH LAB.
Study of Corrosion Products in the Seattle Water Department Tolt Distribution System,
W76-02660 9-06 5A

NATIONAL ENVIRONMENTAL RESEARCH CENTER, LAS VEGAS, NEV.
In Situ Soil Gamma Analyzer--A New Approach to Determine the Movement of Pollutants in Soils.
W76-00912 9-02 5A

NATIONAL ENVIRONMENTAL RESEARCH CENTER, LAS VEGAS, NEV. TECHNICAL SUPPORT LAB.
Tentative Reference Method for the Measurement of Gross Alpha and Gross Beta Radioactivities in Environmental Waters.
W76-03528 9-08 5A

NATIONAL ENVIRONMENTAL SATELLITE SERVICE, WASHINGTON, D.C.
Snow-Extent Mapping and Lake Ice Studies Using ERTS-1 MSS Together with NOAA-2 VHRR,
W76-02028 9-05 7B

Monthly Winter Snowline Variation in the Northern Hemisphere from Satellite Records, 1966-75,
W76-03180 9-07 2C

Estimation of Sea Surface Temperatures from Two Infrared Window Measurements with Different Absorption,
W76-04694 9-10 2L

Determination of Snow Depth and Snow Extent from NOAA 2 Satellite Very High Resolution Radiometer Data,
W76-06383 9-13 2C

Evaluation of ERTS Data for Certain Hydrological Uses,
W76-08147 9-16 7C

An Evaluation of ERTS Data for Oceanographic uses Through Great Lake Studies,
W76-09244 9-17 2H

Great Lakes Temperature Maps by Satellite,
W76-11300 9-21 2H

Selected Satellite Data on Snow and Ice in the Great Lakes Basin 1972-73,
W76-11301 9-21 2C

Remote Sensing or Snowpack Density Using Shortwave Radiation,
W76-12167 9-23 2C

NATIONAL FERTILIZER DEVELOPMENT CENTER, MUSCLE, ALA.
Accretion and Dilution of Nutrients in Young Corn, as Affected by Yield Response to Nitrogen, Phosphorus, and Potassium,
W76-00823 9-02 3C

NATIONAL FERTILIZER DEVELOPMENT CENTER, MUSCLE SHOALS, ALA.
Yield-Nutrient Absorption Relationships as Affected by Environmental Growth Factors,
W76-10184 9-19 2I

NATIONAL FIELD INVESTIGATIONS CENTER-DENVER, COLO.
Government Policies Relating to Water Pollution Control,
W76-04730 9-10 5G

Report on Water Quality and Waste-Source Investigations, Big Sioux River and Selected Tributaries.
W76-05626 9-12 5C

Radiochemical Pollution from Phosphate Rock Mining and Milling,
W76-06944 9-14 5B

NATIONAL FOOD RESEARCH INST., TOKYO, (JAPAN).
Effect of Soil Moisture after Young Panicle Formation Stage on Mineral Composition in Lowland Brown Rice, (In Japanese),
W76-07693 9-15 3F

Studies on the Treatment of Wastewater from Food Plants with Activated Carbons. Part I. Model Experiments on Adsorption of Typical Organic Compounds, (In Japanese),
W76-07708 9-15 5D

NATIONAL FOREST PRODUCTS ASSOCIATION, WASHINGTON, D.C. ENVIRONMENTAL QUALITY DEPT.
The Federal Water Pollution Control Act and Forestry,
W76-03586 9-08 5C

NATIONAL FOUNDATION FOR SCIENTIFIC RESEARCH (NFWO), GHENT (BELGIUM).
Outdoor Recreation Planning and Research in the U.S.A.,
W76-12585 9-23 6B

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The Role of Groundwater in Spain,
W76-00808 9-02 4B

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Conformity of Groundwater Recharge Rate by Tritium Method and Mathematical Modelling,
W76-10700 9-20 2F

NATIONAL HURRICANE AND EXPERIMENTAL METEOROLOGY LAB., CORAL GABLES, FLA.
On th Variability of 'Dynamic Seedability' as a Function of Time and Location Over South Florida. Part II. Temporal Variability,
W76-01529 9-04 2B

NATIONAL INST., FOR OCCUPATION SAFETY AND HEALTH, CINCINNATI, OHIO.
Kinetics of Viral Inactivation by Bromine,
W76-00118 9-01 5F

NATIONAL INST. FOR PHYSICAL PLANNING AND CONSTRUCTION RESEARCH, DUBLIN (IRELAND).
Eutrophication of a Partially Enclosed Estuarine Mudflat,
W76-11811 9-22 5C

NATIONAL INST. FOR THE ENVIRONMENT, TSUKUBA (JAPAN).
Release of Dissolved Organic Matter by Autolysis of a Submersed Macrophyte, Scirpus Subterminalis,
W76-11942 9-22 5C

NATIONAL INST. FOR WATER RESEARCH, PRETORIA (SOUTH AFRICA).
Current Technology and Advances in True Re-Use of Effluents,
W76-09515 9-18 5D

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Household Technology and the Domestic Demand for Water,
W76-03278 9-07 6D

NATIONAL INST. OF ENVIRONMENTAL HEALTH SCIENCES, RESEARCH TRIANGLE PARK, N. C.
New Environmental Health Problems in Water Supply,
W76-03425 9-07 5F

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Mercury and Iron Uptake by Cytosomes in Mantle Epithelial Cells of Quahog Clams (Mercenaria Mercenaria) Exposed to Mercury,
W76-03027 9-07 5C

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Environmental Quality Surveillance in Indonesia,
W76-10655 9-20 5A

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Toxicity of Agricultural Chemicals to Larvivorous Fish in Korean Rice Fields,
W76-11095 9-20 5C

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Limnological Character of Experimental Reservoirs Treated with Tritox 30% (DDT, DMDT, GAMMA HCH),
W76-06012 9-12 5C

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W76-07426 9-14 5C

Hygienic Chemical Studies on Water Quality of the Moat of Imperial Palace: II. Relationship Between Water Quality and Horizontal Insolation Intensity, (In Japanese),
W76-07427 9-14 5C

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Oil Pollution Along the Indian Coastline,
W76-10386 9-19 5B

NATIONAL INST. OF SCIENTIFIC RESEARCH, QUEBEC.
The Log Pearson Type 3 Distribution and its Application in Hydrology,
W76-02701 9-06 2E

Analysis and Management of Water Distribution Systems,
W76-02718 9-06 4A

NATIONAL LIVESTOCK FEEDERS ASSOCIATION, OMAHA, NEBR.
EPA and the Livestock Feeder,
W76-01388 9-03 5G

Impact of Environmental Regulation on the Livestock Industry,
W76-01389 9-03 5G

NATIONAL MARINE FISHERIES SERVICE, ANN ARBOR, MICH. GREAT LAKES FISHERY LAB.
Feeding Behavior and Temperature and Light Tolerance of Mysis Relicta in the Laboratory,
W76-08931 9-17 5C

NATIONAL MARINE FISHERIES SERVICE, AUKE BAY, ALASKA. AUKE BAY FISHERIES LAB.
The Effect of Prudhoe Bay Crude Oil on Survival and Growth of Eggs, Alevins, and Fry of Pink Salmon, Oncorhynchus Gorbuscha,
W76-00141 9-01 5C

Toxicity and Avoidance Tests with Prudhoe Bay Oil and Pink Salmon Fry,
W76-09317 9-17 5C

Sampling Marine Organisms and Sediments for High Precision Gas Chromatographic Analysis of Aromatic Hydrocarbons,
W76-10401 9-19 5A

NATIONAL MARINE FISHERIES SERVICE, BAY SAINT LOUIS, MISS. FISHERIES ENGINEERING LAB.
A Review of Initial Investigations to Utilize Erts-1 Data in Determining the Availability and Distribution of Living Marine Resources,
W76-02041 9-05 7B

NATIONAL MARINE FISHERIES SERVICE, BEAUFORT, N.C. ATLANTIC COASTAL FISHERIES CENTER.
Biomass of Zooplankton in the Newport River Estuary and the Influence of Postlarval Fishes,
W76-06153 9-13 2L

Effects of Temperature, Copper and Chlorine on Fish During Simulated Entrainment in Power-Plant Condenser Cooling Systems,
W76-08878 9-17 5C

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Microbial ATP and Organic Carbon in Sediments of the Newport River Estuary, North Carolina,
W76-08687 9-16 5C

Influence of Temperature and Salinity on Routine Metabolic Rate and Growth of Young Atlantic Menhaden,
W76-10063 9-19 5C

Trace Element Interactions in the Estuarine Zone of the Anasco River, Puerto Rico,
W76-10892 9-20 5C

Final Environmental Statement, Construction of Artificial Reefs in the Atlantic Ocean Off Cape Henry, Virginia.
W76-11094 9-20 8B

Food Habits of Yearling and Adult Striped Bass, Morone Saxatilis (Walbaum), from Albemarle Sound, North Carolina,
W76-11522 9-21 2I

NATIONAL MARINE FISHERIES SERVICE, COLLEGE PARK, MD. FISHERY PRODUCTS TECHNOLOGY LAB.
New Methods Under Investigation for the Utilization of Fish Solubles, A Fishery Byproduct, as a Means of Pollution Abatement,
W76-04736 9-10 5G

NATIONAL MARINE FISHERIES SERVICE, GALVESTON, TEX. GULF COASTAL FISHERIES CENTER.
Abundance of Macrocrustaceans in a Natural Marsh and a Marsh Altered by Dredging, Bulkheading, and Filling,
W76-08435 9-16 5C

NATIONAL MARINE FISHERIES SERVICE, HIGHLANDS, N. J. SANDY HOOK LAB.
The Effect of Temperature on the Behavior of Marine Fishes, a Comparison Among Atlantic Mackerel, Scomber Scombrus, Bluefish, Pomatomus Saltatrix, and Tautog, Tautoga Onitis,
W76-09507 9-18 5C

A Description of Atlantic Mackerel, Scomber Scombrus, Eggs and Early Larvae,
W76-09656 9-18 2I

NATIONAL MARINE FISHERIES SERVICE, HIGHLANDS, N. J. SANDY HOOK SPORT FISHERIES MARINE LAB.
Fin Erosion in Winter Flounder,
W76-11809 9-22 5C

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A Fin Rot Disease of Marine and Euryhaline Fishes in the New York Bight,
W76-10524 9-20 5C

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Culture and Growth of Northern Anchovy, Engraulis Mordax Larvae,
W76-08432 9-16 2L

DDT and its Metabolites in the Sediments off Southern California,
W76-08436 9-16 5C

NATIONAL MARINE FISHERIES SERVICE, MILFORD, CONN. MIDDLE ATLANTIC COASTAL FISHERIES CENTER.
Field Studies on Ozone Inactivation of a Gymnodinium Breve Toxin,
W76-07099 9-14 5G

NATIONAL MARINE FISHERIES SERVICE, MILFORD, CONN. MILFORD LAB.
Mercury Concentrations in Fish, North Atlantic Offshore Waters--1971,
W76-08360 9-16 5A

Trace Metal Content in the American Oyster,
W76-11964 9-22 5C

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W76-03179 9-07 2L

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W76-08437 9-16 5C

Distribution of Tar Balls and Neuston Sampling in the Gulf Stream System,
W76-10410 9-19 5B

Plastic Particles in Surface Waters of the Northwestern Atlantic,
W76-11889 9-22 5B

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W76-03177 9-07 2L

NATIONAL MARINE FISHERIES SERVICE, SEATTLE, WASH.
Long-Term Chemical and Biological Effects of a Persistent Oil Spill Following the Grounding of the General M. C. Meigs,
W76-00139 9-01 5C

Uptake and Loss of Petroleum Hydrocarbons by the Mussel, Mytilus Edulis, in Laboratory Experiments,
W76-03656 9-08 5A

Interagency Investigations of a Persistent Oil Spill on the Washington Coast. Animal Population Studies, Hydrocarbon Uptake by Marine Organisms, and Algae Response Following the

NATIONAL MARINE FISHERIES SERVICE, SEATTLE, WASH.

Grounding of the Troopship General M.C. Meigs,
W76-09324 9-17 5C

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Gas-Bubble Disease: Mortalities of Coho Salmon, Oncorhynchus Kisutch in Water With Constant Total Gas Pressure and Different Oxygen-Nitrogen Rations,
W76-03026 9-07 5C

Effects of Various Concentrations of Dissolved Atmospheric Gas on Juvenile Chinook Salmon and Steelhead Trout,
W76-03032 9-07 5C

Toward a Planetary Aquaculture--The Seas as a Range and Cropland,
W76-04537 9-10 6C

Traveling Screens for Turbine Intakes of Hydroelectric Dams,
W76-08647 9-16 8I

Fish Diversion Systems and Biological Investigation of Horizontal Traveling Screen Model VII,
W76-08648 9-16 8I

Mechanical Operation of Horizontal Traveling Screen Model VII,
W76-08649 9-16 8I

Vertical Traveling Fish Basket Collector,
W76-08650 9-16 8I

Methods for Establishing Levels of Petroleum Contamination in Organisms and Sediment as Related to Marine Pollution Monitoring,
W76-10403 9-19 5B

Analytical Techniques for Isolating and Quantifying Petroleum Paraffin Hydrocarbons in Marine Organisms,
W76-10406 9-19 5A

DDT Plus PCB's in Blubber of Harbor Seals,
W76-11698 9-22 5A

NATIONAL MARINE FISHERIES SERVICE, TIBURON, CALIF. TIBURON FISHERIES LAB.

Acute Toxicity of Benzene, A Component of Crude Oil, to Juvenile Striped Bass (Morone Saxatilis),
W76-03049 9-07 5C

Respiratory Response of Juvenile Chinook Salmon and Striped Bass Exposed to Benzene, A Water-Soluble Component of Crude Oil,
W76-09323 9-17 5C

NATIONAL MARINE FISHERIES SERVICE, WASHINGTON, D.C.

Anadromous Fisheries Conservation Development and Enhancement.
W76-04448 9-09 6E

Eastern Pacific Tuna Fisheries--Yellowfin Tuna.
W76-04866 9-10 6E

Fishery for King Crab in Alaska.
W76-06515 9-13 6E

NATIONAL MARINE FISHERIES SERVICE, WASHINGTON, D.C. DATA BUOY OFFICE.

Development of a Water Quality Instrumentation Package for Long-Term Operation from Buoys and Other Unattended Marine Platforms,
W76-09372 9-17 5G

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State-Federal Management Planning for Marine Fisheries: Today and Tomorrow,
W76-13108 9-24 6E

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The Response of Larval Fish, Leiostomus Xanthurus, to Environmental Stress Following Sublethal Cadmium Exposure,
W76-12732 9-24 5C

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Toxic, Sublethal, and Latent Effects of Petroleum on Red Sea Macrofauna,
W76-00862 9-02 5C

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Morphological Anomalies in Adult Oysters, Scallop, and Atlantic Silversides Exposed to Waste Motor Oil,
W76-00138 9-01 5C

Toxicities of Crude Oils and Oil-Dispersant Mixtures to Juvenile Rabbitfish, Siganus Rivulatus,
W76-02322 9-05 5C

Critical Thermal Maxima and Upper Lethal Temperatures for the Calanoid Copepods Acartia Tonsa and A. Clausi,
W76-02329 9-05 5C

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Stability of Rock Slopes in Mining and Civil Engineering Situations,
W76-07322 9-14 8E

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W76-03188 9-07 2L

Tidal Datums and Mapping Tidal Boundaries,
W76-03625 9-08 6E

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, ANN ARBOR, MICH., GREAT LAKES ENVIRONMENTAL RESEARCH LAB.

Estimating Energy Budget Components to Determine Lake Huron Evaporation,
W76-02425 9-05 2D

Surface Wave Data Recorded in Lake Ontario During IFYGL,
W76-03184 9-07 7C

Lake Ontario Mean Temperatures and Currents in July 1972,
W76-03740 9-08 2H

Operational Ice Forecast for the Little Rapids Cut,
W76-06658 9-13 2C

International Field Year for the Great Lakes,
W76-07563 9-15 2H

Estimating Water Temperatures and Time of Ice Formation on the Saint Lawrence River,
W76-07765 9-15 2E

Water Volume Transport and Oscillatory Current Flow Through the Straits of Mackinac,
W76-08128 9-16 2H

Lake Huron Surface Water Temperature, May-November, 1966,
W76-08141 9-16 2H

Eastern Lake Ontario Precipitation Network,
W76-08412 9-16 2B

Duration-Limited Wave Spectra in Lake Ontario During the 1972 Hurricane Agnes,
W76-11309 9-21 2H

IFYGL Chemical Intercomparisons,
W76-11430 9-21 2H

Documentation of Selected Constructs and Parameter Values in the Aquatic Model Cleaner,
W76-12519 9-23 5C

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, BOULDER, COLO. ENVIRONMENT RESEARCH LABS.

Evaporation from Lake Erie,
W76-03415 9-07 2D

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, BOULDER, COLO. ENVIRONMENTAL RESEARCH LAB.

Formation of Cloud and Ice Nuclei by the Combustion of Crude Oil,
W76-01857 9-04 2B

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, BOULDER, COLO. ENVIRONMENTAL RESEARCH LABS.

Observations of Currents and Temperatures in the Southeast Florida Coastal Zone During 1971-72,
W76-06656 9-13 2L

Lake Huron Beginning-of-Month Water Levels and Monthly Rates of Change of Storage,
W76-06657 9-13 2H

Measurements of Current Flow During Summer in Lake Huron,
W76-08413 9-16 2H

Recent Developments in Chemical Aerosol Analysis,
W76-10910 9-20 5A

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, BOULDER, COLO. MARINE ECOSYSTEMS ANALYSIS PROGRAM OFFICE.

Annual Summary of Research Results for Fiscal Year 1974, MESA New York Bight Project.
W76-03186 9-07 2L

New York Bight Project, Water Column Sampling Cruises No 1-5 of the NOAA Ship FERREL, August-November 1973,
W76-03187 9-07 7C

Evaluation of Proposed Sewage Sludge Dumpsite Areas in the New York Bight.
W76-12469 9-23 5E

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, BOULDER, COLO. OUTER CONTINENTAL SHELF ENVIRONMENTAL ASSESSMENT PROGRAM.

The Alaskan Outer Continental Shelf Environmental Assessment Program,
W76-11478 9-21 6G

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, MIAMI, FLA. ATLANTIC

OCEANOGRAPHIC AND METEOROLOGICAL LAB.
Relationships Between ERTS Radiances and Gradients Across Oceanic Fronts,
W76-02039 9-05 7B

Ocean Internal Waves Off the North American and African Coasts from ERTS-1,
W76-02040 9-05 7B

A Two-Dimensional Numerical Model of Estuarine Circulation: The Effects of Altering Depth and River Discharge,
W76-10948 9-20 2L

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, MIAMI, FLA. ATLANTIC OCEANOGRAPHIC AND METEOROLOGICAL LABS.
Calculations of Differential Kinematic Properties from Lagrangian Observations in the Western Caribbean Sea,
W76-01257 9-03 2L

Measurements of Wind-Driven Flow Profiles in the Top Millimeter of Water,
W76-01260 9-03 2H

Possible Bottom Current Response to Surface Winds in the Hudson Shelf Channel,
W76-02706 9-06 2L

A Solvable Model of 'Shear Dispersion',
W76-07067 9-14 2J

Some Considerations on Monitoring of Trace Metals in Estuaries and Oceans,
W76-10653 9-20 5A

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, MIAMI, FLA. ATLANTIC OCEANOGRAPHIC AND METEOROLOGICAL LABS.; AND NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, MIAMI FLA. MARINE GEOLOGY AND GEOPHYSICS LAB.
Distribution and Transport of Suspended Particulate Matter in Submarine Canyons off Southern California,
W76-03885 9-08 2L

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, MIAMI, FLA. ENVIRONMENTAL RESEARCH LABS.
The Interaction Between Curvature and Lateral Shear Vorticities in a Mean and an Instantaneous Florida Current, A Comparison,
W76-04971 9-10 2L

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, MIAMI, FLA. PHYSICAL OCEANOGRAPHY LAB.
Water Movement Within the Apex of the New York Bight During Summer and Fall of 1973,
W76-03185 9-07 2L

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, NEW YORK. MARINE ECOSYSTEMS ANALYSIS PROGRAM.
New York Alternative Dumpsite Assessment - Reconnaissance Study of Surficial Sediments,
W76-09383 9-17 5G

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, OAK RIDGE, TENN. AIR RESOURCES ATMOSPHERIC TURBULENCE AND DIFFUSION LAB.
Plume Rise from Multiple Sources,
W76-04810 9-10 5B

Meterological Effects of the Mechanical-Draft Cooling Towers of the Oak Ridge Gaseous Diffusion Plant,
W76-04816 9-10 5B

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, PRINCETON, N.J. GEOPHYSICAL FLUID DYNAMICS LAB.
The Structure and Dynamics of the Ocean Surface Mixed Layer,
W76-03733 9-08 2L

On The Generation of Mesoscale Eddies and Their Contribution to the Oceanic General Circulation. I. A Preliminary Numerical Experiment,
W76-03734 9-08 2L

On the Generation of Mesoscale Eddies and Their Contribution to the Oceanic General Circulation. II. A Parameter Study,
W76-03735 9-08 2L

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, ROCKVILLE, MD.
International Field Year for the Great Lakes.
W76-00535 9-02 2H

Coastal Zone Management Program Approval Regulations.
W76-02101 9-05 6E

International Field Year for the Great Lakes.
W76-03189 9-07 2H

Legal Aspects of Tidal Boundaries of the Coastal Zone,
W76-03626 9-08 6E

International Field Year For The Great Lakes.
W76-03725 9-08 2H

International Field Year for the Great Lakes.
W76-03726 9-08 2H

United Nations Environment Program Earthwatch and Marine Pollution,
W76-10371 9-19 5B

Earthwatch-Sentinel for the Future,
W76-10645 9-20 5A

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, ROCKVILLE, MD. OFFICE OF COASTAL ZONE MANAGEMENT.
Inland Boundaries of a State's Zone.
W76-03624 9-08 6E

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Multiple-Use Conflicts Between Fishermen and Other Users of the Ocean With a Consideration of a Possible Expanded Federal Role,
W76-12227 9-23 6G

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, SEATTLE, WASH. PACIFIC MARINE ENVIRONMENT LAB.
Measurement of Internal Waves of Tidal Frequency Near a Continental Boundary,
W76-02710 9-06 2L

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, SEATTLE, WASH. PACIFIC MARINE ENVIRONMENTAL LAB.
A Seabed Drifter Study of Near-Bottom Circulation in North Carolina Shelf Waters,
W76-08350 9-16 2L

Observations of the California Undercurrent Off Washington and Vancouver Island,
W76-09584 9-18 2L

Influence of Surface Waves on Subsurface Current Measurements in Shallow Water,
W76-12431 9-23 2L

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, SILVER SPRING, MD. ENVIRONMENTAL DATA SERVICE.
Marine Pollution Data Archiving and Exchange,
W76-10376 9-19 5A

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, TIBURON, CALIF. MARINE MINERALS TECHNOLOGY CENTER.
Environmental Impact Study of Offshore Sand and Gravel Mining,
W76-09910 9-18 6G

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, WASHINGTON, D.C.
Annotated Bibliography of NOAA Publications of Hydrometeorological Interest,
W76-03183 9-07 2B

State Coastal Zone Management Program.
W76-04446 9-09 6E

Atlantic Bluefin Tuna (Threatened Species--Fish).
W76-04456 9-09 6E

Estuarine Sanctuary Guidelines.
W76-04643 9-10 5G

Coastal Zone Management Program Development Grant.
W76-06095 9-12 6E

The Concept of State and Local Relations Under the CZMA,
W76-07360 9-14 6E

National Oceanic and Atmospheric Administration: Coastal Zone Management Program, Administration Grants, Allocation of Section 306 Funds to States,
W76-10754 9-20 6E

Coastal Zone Management Program Development Grants, Outer Continental Shelf,
W76-10755 9-20 6E

Objective Analysis of IFYGL Surface Meteorological Data,
W76-11435 9-21 2H

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W76-05091 9-11 5A

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A Study of Lake-Land Breeze Circulation over Lake Ontario from IFYGL Buoy Observations,
W76-11296 9-21 2H

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The Atmospheric Budgets Program of IFYGL,
W76-11436 9-21 2H

Data Management: Key to Environmental Quality Assessment,
W76-11607 9-21 5G

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The Third U. N. Law of the Sea Conference: Major Unresolved Fisheries Issues,
W76-10733 9-20 6E

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Lake Ontario Circulation in November,
W76-12430 9-23 2H

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Earthwatch,
W76-06321 9-13 5A

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W76-10370 9-19 5B

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The Meaning and Measurement of Turbidity,
W76-11240 9-21 5A

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W76-09993 9-18 5C

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Protection of the Marine Environment,
W76-11982 9-22 5G

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An Empirically Modified Strokes Equation for Mean Particle Size from Hindered Settling Experiment at any one Concentration,
W76-04973 9-10 2J

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Procedures for the Optimum Use of Geophysical Methods in Groundwater Development Programs,
W76-01125 9-03 2F

Isotopic Composition of Groundwater in Semi-Arid Regions of Southern Africa,
W76-03130 9-07 2K

The Probability of Hail within a Specified Area,
W76-03386 9-07 2B

Rapid Production of Single Crystals of Ice,
W76-06186 9-13 2C

Trace Metals in Oysters from Knysna Estuary,
W76-11966 9-22 2L

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The Degree of Common Orientation of Hydrometeors Observed by Polarization Diversity Radars,
W76-11745 9-22 2B

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W76-12483 9-23 5A

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W76-12329 9-23 5C

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Application of System Analysis in Two-Stage Reverse Osmosis Process Design for Water Desalination,
W76-08076 9-15 3A

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Yeasts Isolated from Some Lakes and Rivers of Saskatchewan,
W76-06135 9-12 5B

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Fluoride Pollution,
W76-00975 9-02 5C

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W76-11758 9-22 4A

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W76-09130 9-17 5A

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W76-05289 9-11 5D

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W76-07505 9-15 5D

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Research Needs in the Context of Our Goal to Restore and Maintain the Chemical, Physical, and Biological Integrity of the Nation's Waters,
W76-03832 9-08 5G

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Optimizing Rainfall Estimates with the Aid of Radar,
W76-02423 9-05 2B

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Evaluation of Satellite Remote Sensing and Automatic Data Techniques for Characterization of Wetlands and Coastal Marshlands,
W76-01531 9-04 7B

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W76-06217 9-13 5G

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W76-06122 9-12 5A

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A Bottom Sediment Trap for Recent Sedimentary Deposits,
W76-07766 9-15 2J

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W76-09268 9-17 7B

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W76-10368 9-19 5C

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W76-03570 9-08 5C

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W76-00730 9-02 5B

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W76-06798 9-13 3F

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W76-11510 9-21 2D

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Water Management Control System for the Zagyva-Tarna River Basin,
W76-05746 9-12 4A

Technical-Economic Planning of the Gabcikovo-Nagymaros Barrage Project for the Development of the Central-Danube Basin,
W76-05754 9-12 4A

Legal Framework of Co-Operation in the Field of Water Management Between Hungary and Her Neighboring Countries,
W76-05759 9-12 6E

Optimal Development Programme for Regional Water Supply Systems,
W76-12563 9-23 6A

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W76-12564 9-23 6A

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W76-04558 9-10 4A

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W76-05760 9-12 6A

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W76-11139 9-21 6B

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W76-12439 9-23 7A

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W76-11910 9-22 4B

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W76-12473 9-23 5D

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W76-12567 9-23 6B

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W76-08783 9-17 5C

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W76-00337 9-01 5C

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W76-00875 9-02 5C

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W76-01906 9-04 5C

Apparatus for Continuously Saturating Water with Hydrophobic Organic Chemicals,
W76-03047 9-07 5A

Baseline Concentrations of Polychlorinated Biphenyls and DDT in Lake Michigan Fish, 1971,
W76-08685 9-16 5A

The Role of Bioassays in Environmental Research,
W76-09644 9-18 5A

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W76-11248 9-21 5A

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W76-08114 9-16 2F

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W76-03522 9-08 5G

History of Ground Water Concepts,
W76-05551 9-12 2F

History of Ground Water Development,
W76-05556 9-12 4B

Objectives of Well-Drilling Regulations,
W76-08917 9-17 5G

Guardians of Ground Water Quality,
W76-10096 9-19 5G

Using Fracture Traces to Locate Water Wells,
W76-11916 9-22 8G

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W76-13031 9-24 4B

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Guidelines for Flash Flood and Small Tributary Flood Prediction,
W76-03417 9-07 4A

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W76-05503 9-12 2H

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W76-01830 9-04 2B

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W76-06653 9-13 4A

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W76-09270 9-17 2L

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W76-00026 9-01 2E

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W76-06634 9-13 2A

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W76-09967 9-18 2E

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W76-08415 9-16 4A

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W76-01119 9-03 2E

Storm Tide Frequency Analysis for the Coast of North Carolina, North of Cape Lookout,
W76-03181 9-07 2B

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W76-03182 9-07 2B

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W76-05860 9-12 2E

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W76-11864 9-22 2C

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W76-12186 9-23 4A

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W76-10823 9-20 6G

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W76-10739 9-20 5C

NATURE CONSERVANCY, ABBOTS RIPTON (ENGLAND). MONKS WOOD EXPERIMENTAL STATION.
Mercury in Waders from the Wash,
W76-12176 9-23 5A

NATURE CONSERVANCY, EDINBURGH (SCOTLAND).
Deep Water Waves in Lakes,
W76-01000 9-02 2H

NATURE CONSERVANCY, GRANGE-OVER-SANDS (ENGLAND). MERLEWOOD RESEARCH STATION.
The Value of Vegetation for Conservation I. Four Land Areas in Britain,
W76-00736 9-02 2I

The Value of Vegetation for Conservation II. M1 Motorway Area,
W76-00737 9-02 2I

NATURHISTORISKA RIKSMUSEET, STOCKHOLM (SWEDEN).
Mercury Level as a Function of Size and Age in Northern Pike, One and Five Years After the Mercury Ban in Sweden,
W76-11401 9-21 5C

NAUCHNO-ISSLEDOVATELSKII INSTITUT EPIDEMIOLOGII I MIKROBIOLOGII, LVOV (USSR).
Hygienic Evaluation of Certain Surface-Active Substances, Components of Effluents from Textile Industry Enterprises, (In Russian),
W76-12314 9-23 5A

NAUCHNO-ISSLEDOVATELSKII INSTITUT EPIDEMIOLOGII, MIKROBIOLOGII I GIGIENY, VILNIUS (USSR).
Danger of Pesticide Pollution of Artificially Replenished Groundwater Reserves, (In Russian),
W76-03649 9-08 5B

Dynamics of the Purification of Domestic Fecal Sewage on Sewage Farms, (In Russian),
W76-07692 9-15 5D

Bacterial Contamination of Perennial Grasses in Overhead Irrigation with Sewage, (In Russian),
W76-08582 9-16 5D

Hygienic Evaluation of Polychloropinene and Alkylbenzene Sulfonate Present Together in Surface Waters, (In Russian),
W76-11530 9-21 5C

NAUCHNO-ISSLEDOVATELSKII INSTITUT GIGIENY, MOSCOW (USSR).
Hygienic Problems of the Protection of Surface Waters and Modern Technology in Industry, (In Russian),
W76-02354 9-05 5D

Experimental Research Data on Hygienic Evaluation of the Method of Magnetic Treatment of Water, (In Russian),
W76-03536 9-08 5C

Increase of the Effectiveness of Direct Detection of Viruses in Surface Waters by Ultrafiltration Through Soluble Ultrafilters, (In Russian),
W76-07960 9-15 5A

Hygenic Evaluation of Ionic Composition of an Imitation of Desalinated Sea Water, (In Russian)
W76-11529 9-21 5C

NAUCHNO-ISSLEDOVATELSKII INSTITUT KURORTOLOGII I FIZIOTERAPII, TOMSK (USSR).
Microflora of Different Types of Mineral Waters of Southeastern Region of West Siberia, (In Russian),
W76-07416 9-14 5C

NAUCHNO-ISSLEDOVATELSKII INSTITUT OVOSHCHNOGO KHOZYAISTVA, MOSCOW (USSR).
Change of Water Regime and Content of Mobile Forms of N, K, Mn and Fe in Meadow-Peat Soil of the Ramensk Floodplain of the Moscow River in Connection with Agricultural Use, (In Russian),
W76-10477 9-19 2G

NAUCHNO-ISSLEDOVATELSKII INSTITUT RADIATSIONNOI GIGIENY, LENINGRAD (USSR).
Biological Effects of Ru106 and J131 on Water Organisms,
W76-06885 9-14 5C

NAUCHNO-ISSLEDOVATELSKII INSTITUT SANITARNOI TEKHNIKI I OBORUDOVANIA ZDANII I SOORUZHENII, KIEV (USSR).
Control of Coagulant Recovery from Effluent Sediment (Kontrol' regeneratsii koagulyantov iz osadka ctochnykh vod),
W76-05725 9-12 5E

NAUCHNO-ISSLEDOVATELSKII INSTITUT SELSKOI GIGIENY, SARATOV (GIGIENY).
Study of the Effect of Water Desalinated by Electrodialysis on Some Biological Objects, (In Russian),
W76-11548 9-21 5D

AUCHNO-ISSLEDOVATELSKII INSTITUT LSKOI GIGIENY, SARATOV (USSR).
Hygienic Problems of the Design, Construction and Operation of Group Water Supply Systems, (In Russian),
W76-02477 9-05 5B

AVAL ENVIRONMENTAL PREDICTION ESEARCH FACILITY, MONTEREY, CALIF.
Multilayer Hydrodynamical-Numerical Models,
W76-10429 9-19 2L

AVAL OCEANOGRAPHIC OFFICE, ASHINGTON, D.C.
Comparison of Sea-Ice Type Identification Between Airborne Dual-Frequency Passive Microwave Radiometry and Standard Laser/Infrared Technique,
W76-05388 9-11 7B

Ocean Dumping--A Rational Approach to an International Problem,
W76-09304 9-17 5G

AVAL POSTGRADUATE SCHOOL, ONTEREY, CALIF.
A Study of the Benthic Algae in the Kelp Bed Off Del Monte Beach, Monterey, California,
W76-01153 9-03 5C

Measurement of Zooplankton Biomass by Carbon Analysis for Application in Sound Scattering Models,
W76-01163 9-03 5A

The Economics of the West Coast Oil Spill Clean-up Industry,
W76-01624 9-04 5G

Measurement and Analysis of Temporal Variations of Salinity in Shallow Water,
W76-02542 9-06 2L

Identification of Costs to States to Perform Certain Marine Environmental Protection Functions,
W76-04551 9-10 5G

Development of an Oil-Water Pollution Monitoring System,
W76-07092 9-14 5A

Updating the Navy Environmental Protection Data Base to Incorporate Oil Spill Clean-Up Performance,
W76-08320 9-16 5B

Antifouling Coatings and their Influence on the Marine Environment,
W76-10365 9-19 5G

Mesoscale Spatial and Temporal Variations of Water Mass Characteristics in the California Current Region off Monterey Bay in 1973-1974,
W76-12386 9-23 2L

Mesoscale Component of the Geostrophic Flow and its Temporal and Spatial Variability in the California Current off Monterey Bay in 1973-74,
W76-12387 9-23 2L

NAVAL POSTGRADUATE SCHOOL, MONTEREY, CALIF. DEPT. OF MECHANICAL ENGINEERING.
Wave Forces on Bottom-Mounted Large-Diameter Cylinder,
W76-06395 9-13 8B

NAVAL POSTGRADUATE SCHOOL, MONTEREY, CALIF. DEPT. OF OCEANOGRAPHY.
Comparison of Hydraulic and Numerical Tidal Models,
W76-10446 9-19 2L

NAVAL RESEARCH LAB., WASHINGTON, D.C.
Simple Method for Measuring Relative Humidity, Water and Air Temperatures within a Few Millimeters of Wind-Generated Water Waves,
W76-00310 9-01 7B

Approximation Formulas for the Equilibrium Size of an Aersol Particle as a Function of its Dry Size and Composition and the Ambient Relative Humidity,
W76-02421 9-05 2B

Measurements of Phytol in Estuarine Suspended Organic Matter,
W76-07974 9-15 5A

A Reliable Algal Assay Procedure Based on pH Measurements,
W76-10360 9-19 5A

Horizontal Random Temperature Structure of the Ocean,
W76-10691 9-20 2L

NAVAL RESEARCH LAB., WASHINGTON, D.C. OCEAN SCIENCES DIV.
The Wind Drift and Wave Breaking,
W76-09724 9-18 2L

NAVAL SHIP ENGINEERING CENTER, HYATTSVILLE, MD. ENVIRONMENTAL POLLUTION CONTROL BRANCH.
Marine Pollution Control: Part III--Ship Design Requirements: The Design Approach,
W76-06196 9-13 5D

NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER, ANNAPOLIS, MD.
Determining the Concentration of Oil in Water Samples by Infrared Spectrophotometry. Phase II. Interlaboratory Study. Volume II,
W76-09900 9-18 5A

Determining the Concentration of Oil in Water Samples by Infrared Spectrophotometry. Phase II. Interlaboratory Study. Volume III,
W76-09901 9-18 5A

The Fouling Community as a Field Monitoring Technique,
W76-10354 9-19 5C

Biological Consideration of a Bioassay System,
W76-10359 9-19 5C

Chemical Problems Encountered in Toxicity Studies,
W76-10364 9-19 5B

NAVAL UNDERSEA CENTER, KAILUA, HAWAII. HAWAII LAB.
The Need for More Intercomparable Field Data and Widely Applicable Short-Term Survey,
W76-10358 9-19 5G

NAVAL UNDERSEA CENTER, SAN DIEGO, CALIF.
Disposal of Marine Sewage: An Environmental Management Standard for Naval Ships,
W76-01828 9-04 5G

A Proximate Biological Survey of Sand Diego Bay, California,
W76-03170 9-07 5C

Environmental Surveys of Open-Ocean Dredge Material Disposal Sites,
W76-03644 9-08 5B

Proceedings of the Conference on Marine Biology in Environmental Protection Held at San Clemente Island, California on 13-15 November, 1973.
W76-10353 9-19 5C

Byssal Thread Production as a Toxicity Test,
W76-10362 9-19 5A

Comparison of Toxicity Tests,
W76-10367 9-19 5C

NAVAL UNDERSEA CENTER, SAN DIEGO, CALIF. DIV. OF CHEMISTRY AND ENVIRONMENTAL SCIENCES.
Measurement of the Apparent PH of Seawater with a Combination Microelectrode,
W76-02415 9-05 2L

NAVAL UNDERWATER SYSTEM CENTER, NEWPORT, R. I. MATERIAL AND CHEMISTRY BRANCH.
Trace Metal Analysis by Atomic Emission Using a D.C. Argon Plasma,
W76-10651 9-20 5A

NAVAL WEAPONS CENTER, CHINA LAKE, CALIF. RESEARCH DEPT.
Handbook of Applied Weather Modification, Part 1. Cold Cloud Modification Subsystem, Volume 1. Cumulus Cloud Treatment.
W76-03101 9-07 3B

NAVY CIVIL ENGINEERING LAB., PORT HUENEME, CALIF.
The Coanda Effect Oil/Water Separator: A Development Study,
W76-09890 9-18 5G

NEBRASKA ENVIRONMENTAL CONTROL COUNCIL, LINCOLN.
Nebraska Domestic and Industrial Liquid Wastes Disposal Rules.
W76-05219 9-11 6E

NEBRASKA NATURAL RESOURCES COMMISSION, LINCOLN.
Nebraska Flood-Plain Management Program--Part II,
W76-07216 9-14 6F

NEBRASKA NATURAL RESOURCES COMMISSION, LINCOLN. FLOOD PLAIN MANAGEMENT SECTION.
Nebraska Flood-Plain Management Program--Part I,
W76-07215 9-14 6F

NEBRASKA STATE DEPT. OF ENVIRONMENTAL CONTROL, LINCOLN.
Guidelines on Livestock Waste Control Facilities.
W76-00453 9-01 5D

Nebraska Environmental Protection Act.
W76-04384 9-09 5G

Nebraska Disposal Wells Regulations.
W76-07801 9-15 5G

NEBRASKA UNIV., LINCOLN.
Locating a New Feedlot,
W76-01383 9-03 5B

Control, Collection, and Disposal of Feedlot Runoff,
W76-07167 9-14 5D

NEBRASKA UNIV., LINCOLN.

Pollution of Surface Irrigation Waters by Plant Pathogenic Organisms,
W76-08230 9-16 5B

NEBRASKA UNIV., LINCOLN. AGRICULTURAL EXPERIMENT STATION.
Soil Water Nitrate Beneath a Broad-Basin Terraced Feedlot,
W76-03981 9-08 5B

Outdoor, Unpaved Feedlot Management,
W76-03989 9-08 5E

Hydrology of Open Feedlots in the Cronbelt,
W76-03990 9-08 5B

NEBRASKA UNIV., LINCOLN. COLL. OF AGRICULTURE AND HOME ECONOMICS.
Legal Implications of Feedlot Pollution in Nebraska,
W76-05173 9-11 5G

NEBRASKA UNIV., LINCOLN. CONSERVATION AND SURVEY DIV.
Groundwater Geology of Southwest Nebraska Ground Water Conservation District,
W76-00005 9-01 4B

Rates of Water Entry into the Subsoil of Several Soil Series in Nebraska,
W76-00008 9-01 5D

Use of Erts-1 Imagery to Interpret the Wind Erosion Hazard in Nebraska's Sandhills,
W76-01309 9-03 2J

NEBRASKA UNIV., LINCOLN. CONSERVATION CO AND DIV.
Water Resources of Pierce County, Nebraska,
W76-07598 9-15 4A

NEBRASKA UNIV., LINCOLN. DEPT. OF AGRICULTURAL CLIMATOLOGY.
The Inadvertent Impacts of Agriculture on Weather and Climate and Agricultural Methods for Amelioration of Climatic Stress,
W76-10902 9-20 3B

NEBRASKA UNIV. LINCOLN. DEPT. OF AGRICULTURAL ENGINEERING.
Water Intake Under Center-Pivots From Time-Varying Application Rates,
W76-00031 9-01 3F

Anhydrous Ammonia Application in Irrigation Water VS. Mechanical and its Effect on Corn Yields,
W76-01072 9-03 3F

Zeta Potential Studies of Colloidal Suspensions from a Beef Cattle Feedlot Surface,
W76-01096 9-03 5B

Great Plains Evapotranspiration by a Resistance Model Using Remotely Sensed Thermal Imagery,
W76-05179 9-11 2D

Energy Reduction Through Improved Irrigation Practices,
W76-11109 9-21 3F

Municipal Wastes as a Fertilizer Source,
W76-11117 9-21 5D

Every-Other Furrow Irrigation of Corn,
W76-12371 9-23 3F

NEBRASKA UNIV., LINCOLN. DEPT. OF AGRONOMY.
Detachment of Soil Aggregates by Simulated Rainfall From Heavily Manured Soils in Eastern Nebraska,
W76-03730 9-08 2J

Effect of Effluent from Beef Feedlots on the Physical and Chemical Properties of Soil,
W76-04289 9-09 5B

NEBRASKA UNIV., LINCOLN. DEPT. OF CIVIL ENGINEERING.
Design and Operation of a Feedlot Runoff Treatment System,
W76-01088 9-03 5D

Chemical Coagulation of Feedlot Runoff,
W76-04426 9-09 5D

Eutrophication of Small Reservoirs in Eastern Nebraska,
W76-07258 9-14 5C

NEBRASKA UNIV., LINCOLN. DEPT. OF ZOOLOGY.
Comparative Primary Productivity of Two Flood Control Reservoirs in the Salt Valley Watershed of Eastern Nebraska,
W76-07254 9-14 5C

Studies on Helminths of North Dakota: V. Life History of Phyllodistomum Nocomis Fischthal, 1942 (Trematoda:Gorgoderidae),
W76-12912 9-24 2I

NEBRASKA UNIV., LINCOLN. INST. OF AGRICULTURE AND NATURAL RESOURCE.
Physical and Chemical Properties of Outdoor Beef Cattle Feedlot Runoff,
W76-10543 9-20 5B

NEBRASKA UNIV., LINCOLN. INST. OF AGRICULTURE AND NATURAL RESOURCES; NEBRASKA UNIV., LINCOLN. DIV. OF NATURAL RESOURCES, CONSERVATION AND SURVEY.
Effects of Land Use and River Seepage on Groundwater Quality in Hall County, Nebraska,
W76-09728 9-18 5B

NEBRASKA UNIV., LINCOLN. ROSS ICE SHELF PROJECT.
Sediments Exposed on the Surface of the Ross Ice Shelf, Antarctica,
W76-06188 9-13 2C

Thickening of the Ross Ice Shelf and Equilibrium State of the West Antarctic Ice Sheet,
W76-11852 9-22 2C

NEBRASKA UNIV., MITCHELL. SCOTTS BLUFF EXPERIMENT STATION.
Fundamentals of Programmed Soil Moisture Depletion,
W76-12373 9-23 3F

Sprinkler Irrigation Design Criteria for Sugar Beets,
W76-12374 9-23 3F

NEDERLANDS INSTITUUT VOOR ONDERZOEK DER ZEE, TEXEL.
Influence of Temperature on Behaviour, Energy Metabolism and Growth of Macoma Balthica (L.),
W76-10080 9-19 5C

NEILL AND GUNTER LTD., FREDERICTON (NEW BRUNSWICK).
Options for the Use and Disposal of Bark,
W76-09302 9-17 5E

NELSON (L.R.) CORP., PEORIA, ILL. (ASSIGNEE).
Sprinkler with Sealed Magnetic Rotary Motion Transmitting Mechanism,
W76-02601 9-06 3F

Impact and Reactant Step-by-Step Rotar Sprinkler Head,
W76-03504 9-08 3

Pop-Up Sprinkler with Multiple-Purpose On Piece Seal,
W76-04268 9-09 3

Lawn Sprinkler,
W76-04599 9-10 3

NEPTUNE MICROFLOC, INC., CORVALLIS, OREG.
Mixed-Media Filtration of Oily Waste Waters,
W76-05307 9-11 5

NETHERLANDS WATERWORKS, RIJSWIJK. TESTING AND RESEARCH INST.
The Occurrence of Organic Micropollutants i the River Rhine and the River Maas in 1974,
W76-12988 9-24 5A

NEVADA AGRICULTURAL EXPERIMENT STATION, RENO.
Upper Carson River Water Study, Water Yea 1973,
W76-00006 9-01 2I

NEVADA UNIV., LAS VEGAS. CENTER FOR WATER RESOURCES RESEARCH.
Evaluation of Geothermal Activity in the Truckee Meadows, Washoe County, Nevada,
W76-01683 9-04 5B

Transform Approach to Solution of Groundwater Flow Equations,
W76-08922 9-17 2F

NEVADA UNIV., LAS VEGAS. DEPT. OF BIOLOGICAL SCIENCES.
Distribution of Stream Pollution in Lake Water,
W76-10712 9-20 5B

NEVADA UNIV., RENO.
Large Scale Color Photograph for Erosion Evaluations on Rangeland Watersheds in the Great Basin,
W76-02161 9-05 2J

NEVADA UNIV., RENO. CENTER FOR WATER RESOURCES; AND NEVADA UNIV., RENO. DESERT RESEARCH INST.
Time of Concentration of Overland Flow,
W76-11958 9-22 2E

NEVADA UNIV., RENO. CENTER FOR WATER RESOURCES RESEARCH; AND NEVADA UNIV., RENO. DESERT RESEARCH INST.
Characterization of Nitrogen Sources Contaminating Shallow Ground Water in an Arid Basin. Las Vegas Area, Nevada,
W76-09762 9-18 5B

NEVADA UNIV., RENO. COOPERATIVE EXTENSION SERVICE.
Soil Moisture Availability and Movement,
W76-00007 9-01 2G

NEVADA UNIV., RENO. DEPT. OF CIVIL ENGINEERING.
Optimal Planning of Regional Wastewater Systems and their Impacts on Stream Quality With a Case Study of the Carson River Basin,
W76-01524 9-04 5F

NEVADA UNIV., RENO. DESERT RESEARCH INST.
Uniqueness of a Model of Steady-State Ground-Water Flow,
W76-01526 9-04 2F

A Review and Synthesis of the Biot and Jacob-Cooper Theories of Ground-Water Motion,
W76-04003 9-09 2F

Preliminary Investigation of Ground-Water Quality and Its Effect on Suburban Development in Washoe Valley, Nevada,
W76-04386 9-09 5A

Pyramid Lake: Zooplankton Distribution and Blooms of the Blue Green Alga, Nodularia spumigena,
W76-08374 9-16 5C

NEVADA UNIV., RENO. DESERT RESEARCH INST.; AND NEVADA UNIV., LAS VEGAS. CENTER FOR WATER RESOURCES RESEARCH.
Quality of Water Considerations in Arid Area Water Management,
W76-10608 9-20 5B

NEVADA UNIV., RENO. LAB. OF ATMOSPHERIC PHYSICS.
Supersaturation and Time Dependence of Ice Nucleation from the Vapor on Single Crystal Substrates,
W76-10695 9-20 3B

NEVADA UNIV., RENO. PLANT, SOIL AND WATER SCIENCE DIV.
Bonding Mechanisms for Soil Crusts: Part II. Strength of Silica Cementation,
W76-00521 9-02 2G

NEVADA UNIVERSITY, RENO, DEPT. OF CHEMICAL AND METALLURGICAL ENGINEERING.
Serpentine as Adsorbent for Removal of Phosphates from Water,
W76-04233 9-09 5D

NEW BEDFORD WATER DEPT., MASS.
Improvements to New Bedford's Water Supply,
W76-00206 9-01 5F

NEW BRUNSWICK UNIV., FREDERICTON. DEPT. OF CIVIL ENGINEERING.
Representative Discharges for Gravel-Bed Rivers in Alberta, Canada,
W76-03357 9-07 2E

NEW BRUNSWICK UNIV., FREDERICTON, DEPT. OF GEOLOGY.
Exploration Rock Geochemistry-Detection of Trace Element Halo at Heath Steele Mines (N. B., Canada) by Discriminant Analysis,
W76-09473 9-18 2K

NEW BRUNSWICK UNIV., FREDERICTON. LAW SCHOOL.
Canadian Approach to the Third Law of the Sea Conference,
W76-07364 9-14 6E

NEW BRUNSWICK UNIVERSITY, FREDERICTON. DEPT. OF CIVIL ENGINEERING.
Longitudinal Dispersion for Flow Over Rough Beds,
W76-10921 9-20 5B

NEW ENGLAND PLATING CO., INC., WORCESTER, MASS.
Electrolytic Treatment of Job Shop Metal Finishing Wastewater,
W76-02070 9-05 5D

NEW ENGLAND RESEARCH, INC., WORCESTER, MASS.
Quabbin Reservoir: A Study of Drought and Water Demand,
W76-04682 9-10 4A

NEW ENGLAND RIVER BASINS COMMISSION, BOSTON, MASS.
New England River Basin Commission, 1974 Annual Report.
W76-04628 9-10 4A

Strategies for Natural Resource Decision Making: Interim Report to the New England Governor's Conference.
W76-07735 9-15 6B

Strategies for Natural Resource Decision-Making: Comments on the Staff Report,
W76-10503 9-20 6E

NEW ENGLAND RIVER BASINS COMMISSION, BOSTON, MASS. SOUTHEASTERN NEW ENGLAND STUDY.
How to Guide Growth in Southeastern New England, Parts I, II and IV of the Draft Report.
W76-05649 9-12 6G

NEW ENGLAND UNIV., ARMIDALE (AUSTRALIA). DEPT. OF PHYSICS.
Thermal Shock as an Ice Multiplication Mechanism. Part I. Theory,
W76-07547 9-15 2B

Thermal Shock as an Ice Multiplication Mechanism. Part II. Experimental,
W76-07548 9-15 2B

NEW HAMPSHIRE UNIV., DURHAM.
Major Issues of the Law of the Sea,
W76-07827 9-15 6E

NEW HAMPSHIRE UNIV., DURHAM. DEPT. OF BOTANY.
Photosynthetic Studies of Chondrus Crispus,
W76-10060 9-19 5C

NEW HAMPSHIRE UNIV., DURHAM. DEPT. OF EARTH SCIENCES.
A Seismic Ground-Water Survey in New Hampshire,
W76-07086 9-14 2F

NEW HAMPSHIRE UNIV., DURHAM. DEPT. OF EARTH SCIENCES; AND NEW HAMPSHIRE UNIV., DURHAM. JACKSON ESTUARINE LAB.
The Short Term Variation in Suspended Sediment Concentration Caused by the Passage of a Boat Wave Over a Tidal Flat Environment,
W76-01827 9-04 2L

NEW HAMPSHIRE UNIV., DURHAM. DEPT. OF MICROBIOLOGY.
Environmental Factors Influencing Isolation of Enteroviruses from Polluted Surface Waters,
W76-12171 9-23 5A

NEW HAMPSHIRE UNIV., DURHAM. DEPT. OF POLITICAL SCIENCE.
Introduction,
W76-07828 9-15 6E

NEW HAMPSHIRE UNIV., DURHAM. DEPT. OF ZOOLOGY.
Effects of Lead and Hydrocarbons from Snowmobile Exhaust on Brook Trout (Salvelinus Fontinalis),
W76-01904 9-04 5C

Characterization of Limnetic Zooplankton Phosphorus Excretion and Factors Affecting Temporal Excretion Rates in the Phosphorus Cycle in a Lake,
W76-07675 9-15 5C

NEW HAMPSHIRE UNIV., DURHAM. INST. OF NATURAL AND ENVIRONMENTAL RESOURCES.
Chloride in Natural Waters of New Hampshire,
W76-02361 9-05 5B

Effects Of A Sanitary Landfill On Groundwater Quality In Ashland, New Hampshire,
W76-03721 9-08 5C

Relationships Between Precipitation, Stream Water Chemistry, and Vegetation for the Bowl, a Forested Watershed in New Hampshire,
W76-03875 9-08 4D

Role of Agriculture in the Quality of the New Hampshire Environment,
W76-12337 9-23 5G

NEW HAMPSHIRE UNIV., DURHAM. JACKSON ESTUARINE LAB.; AND NEW HAMPSHIRE UNIV., DURHAM. DEPT. OF BOTANY.
Physiological Ecology of Four Polysiphonia Species (Rhodophyta, Ceramiales),
W76-12705 9-24 5C

NEW HAMPSHIRE UNIV., DURHAM. LAW OF THE SEA INTERN PROGRAM.
Chapter V: The Continental Shelf,
W76-07833 9-15 6E

Marine Pollution,
W76-07836 9-15 6E

Navigation,
W76-07837 9-15 6E

The High Seas and Selected Special Issues,
W76-07841 9-15 6E

Conclusion,
W76-07842 9-15 6E

NEW HAMPSHIRE UNIV., DURHAM. WATER RESOURCES RESEARCH CENTER.
Cold Period Plant-Water Relations Affecting Consumptive Use of Soil Water and Waste Water Reuse,
W76-04802 9-10 2D

NEW JERSEY COLL. OF MEDICINE AND DENTISTRY, NEWARK. DEPT. OF ANATOMY.
DDT Causes Changes in Activity and Schooling Behavior in Goldfish,
W76-12330 9-23 5C

NEW JERSEY DEPT. OF ENVIRONMENTAL PROTECTION, TRENTON, N. J. BUREAU OF POTABLE WATER.
State Regulatory Agencies and the Safe Drinking Water Act,
W76-05450 9-11 5G

NEW JERSEY INST. OF TECH., TRENTON. DEPT. OF CIVIL AND ENVIRONMENTAL ENGINEERING.
Current Trends in Packaged Wastewater Treatment Facilities, Part I,
W76-00272 9-01 5D

Current Trends in Packaged Wastewater Treatment Facilities, Part II,
W76-02219 9-05 5D

Current Trends in Packaged Wastewater Treatment Facilities, Part III,
W76-03788 9-08 5D

NEW JERSEY SCHOOL OF MEDICINE, NEWARK. DEPT. OF ANATOMY.

Congenital Abnormalities in Methylmercury Poisoning,
W76-01103 9-03 5C

Ultrastructural Changes Induced by Low Concentrations of DDT in the Livers of the Zebrafish and the Guppy,
W76-07706 9-15 5C

NEW MEXICO AGRICULTURAL EXPERIMENT STATION, UNIVERSITY PARK.

How Much to Abate Pollution,
W76-04539 9-10 5G

NEW MEXICO INST. OF MINING AND TECHNOLOGY, SOCORRO.

Hybrid Formulation of Kinematic Wave Models of Watershed Runoff,
W76-03355 9-07 2E

C. E. Jacob's Study on the Prospective and Hypothetical Future of the Mining of the Ground Water Deposited Under the Southern High Plains of Texas and New Mexico,
W76-03363 9-07 4B

Estimation and Optimization of Kinematic Wave Parameters,
W76-04553 9-10 2E

A Rapid Method of Estimating Mean Areal Rainfall,
W76-09368 9-17 2B

Sensitivity of Linear and Nonlinear Surface Runoff Models to Input Errors,
W76-09578 9-18 2A

Derivation of Time of Concentration,
W76-12196 9-23 2E

A Note on the Step Error of Some Finite-Difference Schemes Used to Solve Kinematic Wave Equations,
W76-12834 9-24 2E

NEW MEXICO INST. OF MINING AND TECHNOLOGY, SOCORRO. DEPT. OF PHYSICS.

Rebound Limits on Charge Separation by Falling Precipitation,
W76-00009 9-01 2B

NEW MEXICO STATE UNIV., UNIVERSITY PARK.

Predicting Ionic Distributions in Large Soil Columns,
W76-07234 9-14 2G

NEW MEXICO STATE UNIV., UNIVERSITY PARK. DEPT. OF AGRICULTURAL ECONOMICS AND AGRICULTURAL BUSINESS.

A Socio-Economic Evaluation of Alternative Water Management Policies on the Rio Grande in New Mexico,
W76-06644 9-13 6B

NEW MEXICO STATE UNIV., UNIVERSITY PARK. DEPT. OF AGRONOMY.

Transfer of Boron and Tritiated Water Through Sandstone,
W76-08547 9-16 5B

Predicting Consumptive use with Climatological Data,
W76-10873 9-20 2D

NEW MEXICO STATE UNIV., UNIVERSITY PARK. DEPT. OF BIOLOGY.

Anomalous Diurnal Patterns of Stem Xylem Water Potentials in Larrea Tridentata,
W76-10172 9-19 2I

NEW MEXICO STATE UNIV., UNIVERSITY PARK. DEPT. OF CIVIL ENGINEERING.

The Effects of a Synthetic Chili Waste on Biological Sewage Treatment Plant Operations,
W76-08845 9-17 5D

Time Parameter Evaluation in Dual Flocculant Destabilization,
W76-12211 9-23 5D

Reproducibility Evaluation of the Flocculation of a Synthetic Latex Colloidal System,
W76-12212 9-23 5D

NEW MEXICO UNIV., ALBUQUERQUE. DEPT. OF BIOLOGY.

Leaching of Nutrients from Leaves of Selected Tree Species in New Hampshire,
W76-10312 9-19 5B

Nutrient Budgets for Undisturbed Ecosystems Along an Elevational Gradient in New Mexico,
W76-10325 9-19 5C

Tropic Status of Selected Northern New Mexico Lakes,
W76-10808 9-20 5C

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Water Demands for Energy Development,
W76-04337 9-09 6D

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Rain Dance Doesn't Work Here Anymore, or Water Use and Citizen Attitudes Towards Water Use in Albuquerque, New Mexico,
W76-05016 9-11 6B

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New Orleans Drinking Water Sources Tested by Gas Chromatography Mass Spectrometry, Occurrence and Origin of Aromatics and Halogenated Aliphatic Hydrocarbons,
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Application of a Computer-Based Chromatograph for Automated Water Pollution Analyses,
W76-10038 9-19 5A

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Economics of Exhaustible Resources: The Fishery,
W76-05443 9-11 6C

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Ground-Water Recharge Simulation,
W76-00555 9-02 2F

Ground-Water Recharge Simulation,
W76-03801 9-08 4B

Trends in Catchment Modelling,
W76-04147 9-09 2A

Suppression of Domestic Water Hammer Noise by a Simple Wave Dispersion Technique,
W76-05408 9-11 8G

NEW SOUTH WALES UNIV., KENSINGTON (AUSTRALIA). SCHOOL OF CIVIL ENGINEERING.

Simulation of the Rainfall-Runoff Proce
Using a Hysteretic Infiltration-Redistributio
Model,
W76-01421 9-03 2

Use of Risk Premiums in Chance-Constraine
Dynamic Programing,
W76-03166 9-07 6

Simulation of the Rainfall-Runoff Proce
Using a Hysteretic Infiltration-Redistributio
Model,
W76-03451 9-07 2

Model Evaluation, Testing and Parameter
Estimation in Hydrology,
W76-04142 9-09 2

Parameter Optimization for Watershed Models
W76-09853 9-18 2

Travel Times and Nonlinearity of Flood Runof
from Tracer Measurement on a Sma
Watershed,
W76-11850 9-22 2

NEW SOUTH WALES UNIV., KENSINGTON (AUSTRALIA). SCHOOL OF CIVIL ENGINEERING; AND NEW SOUTH WALES UNIV., KENSINGTON (AUSTRALIA). DEPT. O WATER ENGINEERING.

An Efficient Transition Definition for Discret
State Reservoir Analysis: The Divided Interva
Technique,
W76-05161 9-11 4A

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Price-Investment Policies of Urban Wate
Authorities,
W76-01422 9-03 6C

Tradeoffs Between Irrigation Systems with Different Reliabilities of Supply,
W76-01424 9-03 3F

NEW SOUTH WALES UNIV., KENSINGTON (AUSTRALIA). SCHOOL OF ENGINEERING.

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Induced Polypoidy in Tilapia Aurea (Steindachner) By Means of Temperature Shock Treatment,
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Quality Control in Radiochemical Analysis,
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Reduction in Oxygen Demand of Abattoir Effluent by Precipitation with Metal,
W76-08169 9-16 5D

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Use of Yeast in the Treatment of Sauerkraut Waste,
W76-04733 9-10 5D

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W76-04735 9-10 3E

Dry Caustic Peeling of Beets and Carrots Reduces Pollution,
W76-08504 9-16 5D

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W76-03003 9-07 6D

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W76-04530 9-10 6B

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W76-10130 9-19 6E

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W76-06810 9-14 6F

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W76-09627 9-18 6E

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Land Application of Wastewater, (Literature Review),
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Fish Investigations in Long Island Sound at a Nuclear Power Station Site at Shoreham, New York,
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Effects of Salinity on Nitrification in the East River,
W76-05631 9-12 5C

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W76-02461 9-05 5A

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Simplified Optimization of Water Supply System,
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The Vegetation of Dune Slacks at Newborough Warren: III. Plantago Coronopus,
W76-12911 9-24 3C

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Generation of Hourly Rainfall,
W76-02416 9-05 2B

Public Health Aspect of Tropical Water Resources Development,
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Application of the Stanford Watershed Model to Nigerian Watersheds,
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W76-10464 9-19 5G

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Runoff Measurement in Small Catchment Areas: Registration and Presentation of Data, (In Norwegian),
W76-03280 9-07 2E

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Weathering and Hydrogeology of the Brumunddal Sandstone, Southern Norway,
W76-06676 9-13 2F

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Parameters Affecting Stability of Rubble Mounds,
W76-11854 9-22 8B

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Trapping of Heat in Sill Fjords,
W76-08856 9-17 5C

Computations of the Temperature Response of Stratified Sill Fjords to Cooling-Water Discharges,
W76-08857 9-17 5B

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Investigation of Trondheim Fjord: Orientation to Planning and Preliminary Results, (In Norwegian),
W76-07405 9-14 5A

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Erts Data in Glaciology--an Effort to Monitor Glacier Mass Balance from Satellite Imagery,
W76-05397 9-11 7B

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An Acute Septicaemic Disease of Brown Trout (Salmo Trutta) and Atlantic Salmon (Salmo Salar) Caused by a Pasteurella-Like Organism,
W76-12332 9-23 5C

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Biological Effects of Primary, Secondary, and Tertiary Sewage Treatment in Lotic Analog Recipients,
W76-08792 9-17 5C

Observation and Monitoring of Water Quality by use of Experimental Biological Methods,
W76-08793 9-17 5A

Thermal Effects on Marine Biota in Experimental Systems,
W76-08877 9-17 5C

Pollutional Analysis of Combined Sewer Systems,
W76-12530 9-23 5D

NORTH APPALACHIAN EXPERIMENTAL WATERSHED, COSHOCTON, OHIO.
Estimating Quantity and Quality of Runoff from Eastern Beef Barnlots,
W76-07193 9-14 5B

NORTH CAROLINA BOARD OF WATER AND AIR RESOURCES, RALEIGH.
Reclamation of Wood-Chip Carrier Water,
W76-07206 9-14 5D

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Production Response of the Bluegill Sunfish, Lepomis Macrochirus Rafinesque, to Added Attachment Surface for Fish-Food Organisms,
W76-10522 9-20 2I

NORTH CAROLINA DEPT. OF HUMAN RESOURCES, RALEIGH. DIV. OF HEALTH SERVICES.
Problems in Small Water Systems,
W76-03432 9-07 5F

NORTH CAROLINA DEPT. OF NATURAL AND ECONOMIC RESOURCES. DIV. OF ENVIRONMENTAL MANAGEMENT.
Shallow Subsurface Disposal of Wastewater,
W76-11228 9-21 5E

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Regulation Adopting Effluent Limitaions and Guidelines for Wastewater Discharges to the Surface Waters of North Carolina.
W76-05212 9-11 5G

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A Preliminary Report on Anomalous Pressures in Deep Artesian Aquifers in Southeastern North Carolina,
W76-03526 9-08 4B

NORTH CAROLINA DEPT. OF NATURAL AND ECONOMIC RESOURCES, RALEIGH. WATER RESOURCES PLANNING DEPT.
Water Resources Aspects of the Proposed Perkins Station Nuclear Power Plant.
W76-01274 9-03 8A

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New Classifications Adopted And Assigned To Certain Waters In The Yadkin River Basin.
W76-03598 9-08 5G

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Model Floodway Ordinance (Floodway Regulation).
W76-04362 9-09 6F

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Criteria for the Identification of Areas of Environmental Concern Prepared for North Carolina Land Policy Council.
W76-07371 9-14 6E

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First the Water, Then the Sewer, Then Land Use Planning: Coastal Planning in Retrospect and in the Now,
W76-11622 9-21 5D

NORTH CAROLINA STATE UNIV. AT RALEIGH

NORTH CAROLINA STATE UNIV. AT RALEIGH. DEPT. OF ECONOMICS AND BUSINESS.
Factors Affecting Adoption of Land Treatment of Municipal Waste Water,
W76-01329 9-03 5D

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W76-11621 9-21 5D

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Dairy Waste Management Alternatives,
W76-00434 9-01 5D

Legal Measures Concerning Marine Pollution.
W76-00963 9-02 6E

Pollution of the High Seas: The Oceans as International Rivers,
W76-00964 9-02 6E

Artificial Islands: Possibilities and Legal Problems,
W76-00965 9-02 6E

Marine Pollution Control and Man-Made Islands,
W76-00966 9-02 6G

Fourth Amendment Problems in the Enforcement of Marine Conservation Laws,
W76-00967 9-02 6E

International Ocean Dumping of Industrial Chemical Waste,
W76-00968 9-02 6E

The Quest for Oil: A Decisive Force in the Law of the Arctic Sea Pertaining to Pollution,
W76-00969 9-02 6E

Legal Aspects of Phosphate Mining in North Carolina,
W76-00984 9-02 6G

Propagation of Spartina Alterniflora for Substrate Stabilization and Salt Marsh Development,
W76-01169 9-03 2L

A Simulation Model For Studying Effects of Pollution and Freshwater Inflow on Secondary Productivity in a Ecosystem,
W76-02567 9-06 5C

The Feasibility of Penaeid Shrimp Culture in Brackish Ponds Receiving Treated Sewage Effluent,
W76-03573 9-08 5C

Utilization of ERTS-1 Data in Geological Evaluation, Regional Planning, Forest Management, and Water Management in North Carolina,
W76-08538 9-16 4A

Effects of Sulfur Dioxide and/or Ozone on Several Oat Varieties, 1975 Annual Report,
W76-11190 9-21 5C

NORTH CAROLINA STATE UNIV., RALEIGH. DEPT. OF BIOLOGICAL AND AGRICULTURAL ENGINEERING.
Transformations of Swine Wastewater in Laboratory Soil Profiles,
W76-01387 9-03 5B

Drawdown Solutions for Simultaneous Drainage and ET,
W76-04103 9-09 4B

Swine Production and Waste Management: State-of-the-Art,
W76-07178 9-14 5D

Agricultural Water Demands in North Carolina,
W76-08841 9-17 3F

Determination of the Hydraulic Conductivity - Drainable Porosity Ratio from Water Table Measurements,
W76-09249 9-17 2F

Lysimeter Studies with Long Term Application of Swine Lagoon Effluent,
W76-11055 9-20 5B

Land Disposal of Wastewater,
W76-11227 9-21 5E

Overland Flow Pretreatment of Wastewater,
W76-11775 9-22 5D

Regional Simulation of Streamflow Data,
W76-12250 9-23 2A

Predicted Versus Measured Drainable Porosities,
W76-13019 9-24 4A

NORTH CAROLINA STATE UNIV., RALEIGH. DEPT. OF CIVIL ENGINEERING.
Comparative Study of Fresh-Salt Water Interfaces Using Finite Element and Simple Approaches,
W76-02940 9-06 2L

Waste Control and Abatement in the Processing of Sweet Potatoes,
W76-03636 9-08 5D

Expansion of Salt-Water Zone Due to Well Discharge,
W76-05133 9-11 2L

Covariance Functions and Spectra of a Random Wave Field,
W76-06931 9-14 2L

River Delta Computer Simulation Model (Simudelt),
W76-09954 9-18 2L

NORTH CAROLINA STATE UNIV., RALEIGH. DEPT. OF ECONOMICS.
Use, Continued Use, and Reuse of Both Process and Waste Waters in Poultry Processing Operations,
W76-08299 9-16 3E

Water and Waste Management in Poultry Processing,
W76-08428 9-16 3E

NORTH CAROLINA STATE UNIV., RALEIGH. DEPT. OF ECONOMICS AND BUSINESS.
Factors Affecting Adoption of Land Treatment of Municipal Waste Water,
W76-03203 9-07 5D

NORTH CAROLINA STATE UNIV., RALEIGH. DEPT. OF ECONOMICS; AND NORTH CAROLINA STATE UNIV., RALEIGH. DEPT. OF BUSINESS.
A Bargaining Approach for Programming Least-Cost Waste Treatment Along a River,
W76-01504 9-04 5D

NORTH CAROLINA STATE UNIV., RALEIGH. DEPT. OF FOOD SCIENCE.
Seafood Processing in Relation to Coastal Industrial Park Concepts,
W76-13101 9-24 6B

NORTH CAROLINA STATE UNIV., RALEIGH. DEPT. OF GEOSCIENCES.
Hydrology and Circulation Patterns in the Vicinity of Oregon Inlet and Roanoke Island, North Carolina,
W76-03178 9-07 2E

Use of Multispectral Photography in Water Resources Planning and Management in North Carolina,
W76-11773 9-22 5A

NORTH CAROLINA STATE UNIV., RALEIGH. DEPT. OF HORTICULTURAL SCIENCE.
Evaporative Cooling of 'Delicious' Apples: The Economic Feasibility of Reducing Environmental Heat Stress,
W76-06791 9-13 3F

NORTH CAROLINA STATE UNIV., RALEIGH. DEPT. OF MARINE SCIENCES.
A Simulation Model for Studying Effects of Pollution and Freshwater Inflow on Secondary Productivity in an Ecosystem,
W76-04570 9-10 2L

NORTH CAROLINA STATE UNIV., RALEIGH. DEPT. OF MICROBIOLOGY.
Bacterial Flora of Saline Aquifers,
W76-01254 9-03 5A

NORTH CAROLINA STATE UNIV., RALEIGH. DEPT. OF RECREATION RESOURCES ADMINISTRATION.
Capacity of Water-Based Recreation Systems, Part III: Methodology and Findings,
W76-01804 9-04 6B

NORTH CAROLINA STATE UNIV., RALEIGH. DEPT. OF SOIL SCIENCE.
Predicting Anion Movement in Disturbed and Undisturbed Soils,
W76-05402 9-11 2G

Effect of Thinning on the Foliage and Forest Floor Properties of Ponderosa Pine Stands,
W76-09474 9-18 4A

Puddling Tropical Rice Soils: 2. Effects of Water Losses,
W76-10118 9-19 3F

Evaluation of Soil Systems for Land Disposal of Industrial and Municipal Effluents,
W76-11774 9-22 5D

NORTH CAROLINA STATE UNIV., RALEIGH. DEPT. OF ZOOLOGY.
Heat Influences in Estuarine Ecosystems,
W76-03489 9-07 5C

Accumulation Rate and Turnover Time of Organic Carbon in a Salt Marsh Sediment,
W76-04948 9-10 5B

Accumulation Rate and Turnover Time of Organic Carbon in a Salt Marsh Sediment,
W76-06714 9-13 5C

Experimental Characterization of Lacustrine Chlorophyll Diagenesis: II. Bacterial, Viral and Herbivore Grazing Effects,
W76-07431 9-14 5C

Nekton Population Dynamics in the Albemarle Sound and Neuse River Estuaries,
W76-08037 9-15 5C

NORTH CAROLINA STATE UNIV., RALEIGH. SEA GRANT PROGRAM.
Impact of Water Supply and Wastewater on the Coastal and Marine Environments,
W76-11625 9-21 5D

ORTH CAROLINA UNIV., AT ASHEVILLE. EPT. OF BIOLOGY.
Chronic Malnutrition in Four Species of Sunfish in a Thermally-Loaded Impoundment,
W76-03472 9-07 5C

ORTH CAROLINA UNIV. AT CHAPEL HILL.
Innocent Passage: An Historical and Analytical Perspective,
W76-03620 9-08 6E

The U.S. Position on the Breadth of the Territorial Sea: National Security and Beyond,
W76-03621 9-08 6E

Stare Decisis in the Developing Law of the Sea,
W76-03622 9-08 6E

The Emergency Marine Fisheries Protection Act of 1974, S 1988,
W76-03623 9-08 6E

ORTH CAROLINA UNIV. AT CHAPEL HILL. EPT. OF CITY AND REGIONAL PLANNING.
Management of Environmental Quality: Observations on Recent Experience in the United States and the United Kingdom,
W76-05659 9-12 5G

ORTH CAROLINA UNIV. AT CHAPEL HILL. EPT. OF ENVIRONMENTAL ENGINEERING.
Strategies for Assuring High Quality Drinking Water in the Future,
W76-03431 9-07 5F

ORTH CAROLINA UNIV. AT CHAPEL HILL. EPT. OF ENVIRONMENTAL SCIENCE AND NGINEERING.
Health Significance of Airborne Microorganisms from Waste Water Treatment Processes, Part II: Health Significance and Alternatives for Action,
W76-06327 9-13 5C

ORTH CAROLINA UNIV. AT CHAPEL HILL. EPT. OF ENVIRONMENTAL SCIENCES AND NGINEERING.
Water Management in England: A Regional Model,
W76-03207 9-07 6B

Predictive Model for Phosphorus in Lakes,
W76-03243 9-07 5B

Enteric Viruses and Drinking Water Supplies,
W76-03427 9-07 5F

Water Demand Forecasting--Some Concepts and Techniques,
W76-03442 9-07 5F

Health Significance of Airborne Microorganisms from Wastewater Treatment Processes, Part I: Summary of Investigations,
W76-06326 9-13 5C

Field Evaluation of the Algal Assay Procedure on Surface Waters of North Carolina,
W76-06698 9-13 5C

Availability of Aluminum Phosphate from Alum-Treated Wastewater for Algal Growth,
W76-08842 9-17 5D

Wastewater Reuse in Coastal Areas,
W76-11620 9-21 5D

The Trophic State of North Carolina Lakes,
W76-12210 9-23 5C

Measurement and Persistence of Chlorine Residuals in Natural Waters,
W76-12879 9-24 5A

NORTH CAROLINA UNIV. AT CHAPEL HILL. DEPT. OF ENVIRONMENTAL SCIENCES AND ENGINEERING; AND NORTH CAROLINA UNIV. AT CHAPEL HILL. SCHOOL OF PUBLIC HEALTH.
Distribution and Biomagnification of Hexachlorophene in Urban Drainage Areas,
W76-03248 9-07 5B

NORTH CAROLINA UNIV. AT CHAPEL HILL. DEPT. OF FINE ARTS.
Washington's Waterfront Lesson,
W76-01596 9-04 6B

NORTH CAROLINA UNIV. AT CHAPEL HILL. INST. OF GOVERNMENT.
Management and Financing Alternatives for Waste Disposal in Coastal Areas,
W76-11616 9-21 5E

NORTH CAROLINA UNIV. AT CHAPEL HILL. SCHOOL OF LAW.
Emerging Ocean Oil and Mining Law,
W76-05207 9-11 6E

The Role of North Carolina in Regulating Offshore Petroleum Development,
W76-07822 9-15 6E

NORTH CAROLINA UNIV., AT CHAPEL HILL. SCHOOL OF PUBLIC HEALTH.
Characterization and Treatment of Brine Wastewaters From the Cucumber Pickle Industry,
W76-10805 9-20 3E

NORTH CAROLINA UNIV. AT CHAPEL HILL. WASTEWATER RESEARCH CENTER.
The Role of Conventional Wastewater Treatment in Coastal Areas,
W76-11229 9-21 5D

NORTH CAROLINA UNIV. AT WILMINGTON. INST. OF MARINE BIOMEDICAL RESEARCH.
Potential Effects of Oil Drilling and Dumping Activities on Marine Biota,
W76-08907 9-17 5C

NORTH CAROLINA UNIV., CHAPEL HILL. DEPT. OF CITY AND REGIONAL PLANNING.
Field-Level Planning for Areawide Waste Treatment Management: A Model for Planning Under Section 208 of the Federal Water Pollution Control Act,
W76-05261 9-11 5D

NORTH CAROLINA UNIV., CHAPEL HILL. DEPT. OF ENVIRONMENTAL SCIENCES AND ENGINEERING.
Strategies for Water Quality Monitoring,
W76-00178 9-01 5A

Models for Municipal and Industrial Water Demand Forecasting in North Carolina,
W76-04390 9-09 6D

EPA Standards: Health or Headache,
W76-06489 9-13 5G

Response of Phytoplankton to Thermal Stress,
W76-08644 9-16 5C

Sensors for Continuous Monitoring of Toxic Ions, Nutrients, and Dissolved Gases in Water,
W76-09906 9-18 5A

NORTH CAROLINA UNIV. DEPT. OF ENVIRONMENTAL SCIENCES AND ENGINEERING.
Effect of Thermal Stress on Phytoplankton Productivity in Condenser Cooling Water,
W76-03490 9-07 5C

NORTH CAROLINA UNIV., MOREHEAD CITY. INST. OF MARINE SCIENCES.
Entrapment of Fishes on Intake Water Screens at a Steam Electric Generating Station,
W76-01939 9-04 8I

NORTH CAROLINA WATER RESOURCES RESEARCH INST., RALEIGH.
The Proceedings of a National Symposium on the State of America's Drinking Water.
W76-03422 9-07 5F

1974-1975 Annual Report, Water Resources Research Institute of the University of North Carolina.
W76-05255 9-11 9D

Proceedings of the Southeastern Conference on Water Supply and Wastewater in Coastal Areas,
W76-11224 9-21 5D

NORTH CAROLINA WILDLIFE RESOURCES COMMISSION, RALEIGH.
Incidence and Cause of Gas-Bubble Disease in a Heated Effluent,
W76-02006 9-05 5C

NORTH DAKOTA STATE UNIV., FARGO.
Management of Irrigation for Disposal of Feedlot Runoff in Cold Climates,
W76-07194 9-14 5D

NORTH DAKOTA STATE UNIV., FARGO. DEPT. OF AGRICULTURAL ENGINEERING.
System Components to Separate Solids and Liquids,
W76-11036 9-20 5D

Nature and Behavior of Manure,
W76-11038 9-20 5B

Plant Water Stress Criteria for Irrigation Scheduling,
W76-13024 9-24 2G

NORTH DAKOTA STATE UNIV., FARGO. DEPT. OF CHEMISTRY.
The Oxidation of Uric Acid by Iodine in Aqueous Solution,
W76-02632 9-06 5B

Interactions of Metals and Simple Oxyanions in Water,
W76-02633 9-06 5A

Solvent Extraction Study for Simultaneous Determinations of Six Trace Metals in River Water,
W76-04759 9-10 5A

NORTH DAKOTA STATE UNIV., FARGO. DEPT. OF CIVIL ENGINEERING.
Comparison of Warburg and Marais Methods of Determining Oxygen Uptake Rate Constants,
W76-09189 9-17 5A

NORTH DAKOTA STATE UNIV., FARGO. DEPT. OF PHYSICS.
Use of Perturbed Gamma-Gamma Directional Correlations in the Study of Anomalous Water Structure,
W76-06906 9-14 1B

NORTH DAKOTA STATE UNIV., FARGO. DEPT. OF SOILS.
In Situ Hydraulic Conductivity at Four Hillslope Locations in a Closed Drainage System,
W76-00023 9-01 2G

Spatial Variability of in Situ Unsaturated Hydraulic Conductivity of Maddock Sandy Loam,
W76-05670 9-12 2G

NORTH DAKOTA STATE UNIV., FARGO. DEPT. OF ZOOLOGY.
Wildlife, Ecology and Planning in a Proposed Irrigation System,
W76-06804 9-14 4C

Evaluation of Alternative uses of Wetlands,
W76-06908 9-14 3F

A Limnological Study of Spiritwood Lake, N. D., with Special Emphasis on Its Water Quality, Seasonal Cycles of Chemical Nutrients, Phytoplankton, Zooplankton and Primary Production, Part I: Photosynthetic Production and Energy Conversion in Spiritwood Lake, North Dakota,
W76-12213 9-23 5C

A Limnological Study of Spiritwood Lake, N. D., With Special Emphasis on Its Water Quality, Seasonal Cycles of Chemical Nutrients Phytoplankton, Zooplankton and Primary Production, Part II: Causes and Control of Algal Blooms in Spiritwood Lake, North Dakota,
W76-12214 9-23 5C

NORTH DAKOTA UNIV., GRAND FORKS. COMMUNICATION RESEARCH CENTER.
Development Priorities in the West River Region, North Dakota, A Social Attitude and Communication Analysis,
W76-04007 9-09 6B

NORTH DAKOTA UNIV., GRAND FORKS. DEPT. OF BIOLOGY.
Comparative Studies of Some Inland Saline Aquatic Ecosystems in North Dakota,
W76-06805 9-14 5A

NORTH DAKOTA UNIV., GRAND FORKS. DEPT. OF CHEMISTRY.
The Microdetermination of Mercury Species in Natural Water Systems by Liquid Chromatography,
W76-02630 9-06 5A

NORTH DAKOTA UNIV., GRAND FORKS. DEPT. OF CIVIL ENGINEERING.
Pretreatment of Combined Municipal and Potato Processing Wastes,
W76-04749 9-10 5D

NORTH DAKOTA UNIV., GRAND FORKS. DEPT. OF GEOLOGY.
The Study of Ground Water Movement in Selected Areas of North Dakota,
W76-02628 9-06 2F

Effects of Groundwater Seepage on Stream Regiment,
W76-02629 9-06 2J

Physical Framework of Ground Water Occurrence and Movement in Glacial Deposits in Central North Dakota,
W76-02631 9-06 7C

NORTH DAKOTA WATER RESOURCES RESEARCH INST., FARGO.
Lower Sheyenne River Basin Water - Land - People.
W76-02627 9-06 5A

The Economic Value of Water for Selected Uses in Southwestern North Dakota,
W76-05350 9-11 6B

Development Priorities in the West River Region, North Dakota,
W76-05352 9-11 6B

NORTH KAZAKHSTAN REGIONAL SANITARY EPIDEMIOLOGICAL STATION, PETROPAVLOVSK-KAMCHATSKII (USSR).
Sanitary Characterization of the Sergeevka Reservoir, (In Russian),
W76-02446 9-05 5C

NORTH STAR RESEARCH INST., MINNEAPOLIS, MINN.
In Situ-Formed Condensation Polymers for Reverse Osmosis: Second Phase,
W76-03151 9-07 3A

NORTH TABLE MOUNTAIN WATER AND SANITATION DISTRICT, COLO.
PVC Pipe Cuts Colorado District's Flow Cost,
W76-01063 9-03 8G

NORTH TEXAS STATE UNIV., DENTON. DEPT. OF ADMINISTRATIVE SCIENCES AND MARKETING.
Water Pollution Control: Crossroads of a Municipal Financial Dilemma,
W76-11626 9-22 5D

NORTH TEXAS STATE UNIV., DENTON. DEPT. OF BIOLOGICAL SCIENCES.
Microbiological Degradation of Phenol in the Effluent from a Wood Treatment Plant,
W76-07744 9-15 5D

NORTH TEXAS STATE UNIV., DENTON. DEPT. OF MICROBIOLOGY.
Effect of Temperature on Cannery Waste Oxidation,
W76-07662 9-15 5D

NORTH TEXAS STATE UNIV., DENTON. INST. FOR ENVIRONMENTAL STUDIES.
Formation of Organochlorine Compounds from the Chlorination of a Municipal Secondary Effluent,
W76-03699 9-08 5D

NORTH TEXAS STATE UNIV., DENTON. INST. OF APPLIED SCIENCES.
Analysis of New Chlorinated Organic Compounds Formed by Chlorination of Municipal Wastewater,
W76-12883 9-24 5A

NORTHEAST LOUISIANA UNIV., MONROE. DEPT. OF BIOLOGY.
The Influence of Hardness Components (CA2+ and MG2+) in Water on the Uptake and Concentration of Cadmium in a Simulated Freshwater Ecosystem,
W76-10346 9-19 5C

NORTHEAST UNIV., BOSTON, MASS. DEPT. OF CIVIL ENGINEERING.
Dynamics of Breakpoint Chlorination,
W76-00115 9-01 5F

NORTHEASTERN FOREST EXPERIMENT STATION, PARSONS, W. VA. TIMBER AND WATERSHED LAB.
Shifting Land use and the Effects on River Flow in Massachusetts,
W76-04976 9-10 4C

NORTHEASTERN FOREST EXPERIMENT STATION, PENNINGTON, N.J.
Effects of Management Practices on Water Quality and Quantity: Baltimore, Maryland, Municipal Watersheds,
W76-09464 9-18 4D

Effects of Management Practices on Wate Quality and Quantity: Newark, New Jersey Municipal Watersheds,
W76-09465 9-18 4I

Watershed Response to Partial Area Applica tions of Simulated Rainfall,
W76-09467 9-18 2A

Forest Management Practices as Related t Nutrient Leaching and Water Quality,
W76-09471 9-18 4C

Municipal Watershed Management: What ar the Opportunities,
W76-09472 9-18 4I

NORTHEASTERN ILLINOIS UNIV., CHICAGO DEPT. OF EARTH SCIENCES.
The Budding Environmental Clean-Up (A Viewpoint): Part II. Clean Up, Costs and Growth,
W76-13098 9-24 5C

NORTHEASTERN UNIV., BOSTON, MASS. DEPT. OF CIVIL ENGINEERING.
Anaerobic Treatment of Leachate with High Sodium Concentrations,
W76-09641 9-18 5D

NORTHERN ARIZONA UNIV., FLAGSTAFF.
Water Resources of the Inner Basin of San Francisco Volcano, Coconino County, Arizona,
W76-02237 9-05 4B

Structural Relations Determined From In terpretation of Geophysical Surveys: Woody Mountain Well Field, Coconino County, Arizona,
W76-02238 9-05 4B

Preliminary Investigation of the Hydrologic Properties of Diatremes in the Hopi Buttes, Arizona,
W76-02239 9-05 4B

Water Resources of the Woody Mountain Well Field Area, Coconino County, Arizona,
W76-02748 9-06 4B

Chemistry of Effervescing Groundwater from Municipal Wells, Flagstaff, Arizona,
W76-02749 9-06 4B

NORTHERN ARIZONA UNIV., FLAGSTAFF. DEPT. OF BIOLOGICAL SCIENCE.
Investigation of Diatom Populations in Rhitron and Potamon Communities in Oak Creek, Arizona,
W76-02458 9-05 5A

NORTHERN GREAT PLAINS RESOURCE PROGRAM, DENVER, COLO.
Northern Great Plains Resource Program. Surface Resource Work Group--Regional Profile.
W76-09228 9-17 4C

NORTHERN GREAT PLAINS RESOURCES PROGRAM, DENVER, COLO.
Northern Great Plains Resource Program.
W76-06050 9-12 6D

Northern Great Plains Resource Program, Water Work Group Report.
W76-06616 9-13 3E

NORTHERN ILLINOIS UNIV., DE KALB. DEPT. OF GEOLOGY.
Regional Distribution of the Major Dissolved Solids in the Streams of Illinois,
W76-06163 9-13 5B

ORTHERN ILLINOIS UNIV., DEKALB. DEPT. F GEOLOGY.
Regional Characteristics of the Total Dissolved Minerals in Stream Waters in Illinois,
W76-11857 9-22 5A

ORTHERN ILLINOIS WATER CORP., HAMPAIGN.
From Lagooning to Farmland Application: The Next Step in Lime Sludge Disposal,
W76-03678 9-08 5D

ORTHERN MICHIGAN UNIV., MARQUETTE. EPT. OF BIOLOGY.
Chlorohydrocarbons in Lake Superior Lake Trout (Salvelinus Namaycush),
W76-04913 9-10 5C

ORTHERN MIDDLESEX AREA OMMISSION, LOWELL, MASS.
Sewer/Water Preferred Long Range Plans.
W76-06352 9-13 5G

Sewer and Water Facilities in the Northern Middlesex Area, Short Range Priority Program 1972-1977.
W76-06353 9-13 5G

ORTHERN OHIO SUGAR CO., FREMONT, HIO.
Irrigation Scheduling and Sugarbeet Production,
W76-13002 9-24 3F

ORTHERN RESEARCH INST. OF YDRAULIC ENGINEERING AND LAND ECLAMATION, KAZAN (USSR).
Use of the Bulrush in Water Management, (In Russian),
W76-07449 9-14 4A

ORTHERN SAHARA WATER RESOURCES TUDY PROJECT, ALGER (ALGERIA).
Computation of Economic Data Concerning the Exploitation of Groundwater on a Regional Scale,
W76-00819 9-02 4B

ORTHERN STATES POWER CO., INNEAPOLIS, MINN.
Fish Impingement at Monticello Nuclear Plant,
W76-07211 9-14 8I

ORTHROP SERVICES, INC., HUNTSVILLE, LA.
Stochastic Sea State for SRB Studies,
W76-13177 9-24 2L

ORTHUMBRIAN RIVER AUTHORITY, OSFORTH (ENGLAND).
Synthetic Monthly Run-Off Records for Ungauged British Catchments,
W76-08010 9-15 4A

ORTHUMBRIAN WATER AUTHORITY, OSFORTH (ENGLAND).
Total Oxygen Demand,
W76-05056 9-11 5A

The Tyneside Sewerage Scheme,
W76-09184 9-17 5D

ORTHUMBRIAN WATER AUTHORITY OSFORTH (ENGLAND). ORTHUMBERLAND AND TYNE DIV.
Water Resources in Northumbria with Particular Reference to the Kiedler Water Scheme,
W76-03824 9-08 6E

NORTHWEST CONSULTANT OCEANOGRAPHERS, INC., SEATTLE, WASH.
The Effect of Tidal Currents on Planned Effluent Discharge in Puget Sound,
W76-04925 9-10 5B

NORTHWEST NUCLEAR POWER ASSOCIATES, SEATTLE, WASH.
A High Capacity Sand Filter for Thermal Power Plant Cooling Water Intakes Part II: Design Concept,
W76-08661 9-16 8I

NORTHWESTERN UNIV., EVANSTON, ILL.
Thermoviscoelasticity of Aging Concrete,
W76-00277 9-01 8F

Fly Ash - A Potential Asset in Wastewater Treatment,
W76-11274 9-21 5D

NORTHWESTERN UNIV., EVANSTON, ILL. DEPT. OF CIVIL ENGINEERING.
A Stochastic Rainfall Model and Statistical Analysis of Hydrologic Factors,
W76-02928 9-06 2A

A Marginal Cost Basis for Metropolitan Water Supply Allocation and Operation,
W76-06164 9-13 6A

NORTHWESTERN UNIV., EVANSTON, ILL. DEPT. OF GEOLOGICAL SCIENCES.
Uptake and Migration of Tracers in Lake Sediments,
W76-01475 9-03 2H

Stratified Lake and Oceanic Brines: Salt Movement and Time Limits of Existence,
W76-02696 9-06 5B

Velocity--Bed-Form--Texture Patterns of Meander Bends in the Lower Wabash River of Illinois and Indiana,
W76-02919 9-06 2J

Hierarchical Attributes and a Unifying Model of Bed Forms Composed of Cohesionless Material and Produced by Shearing Flow,
W76-02920 9-06 2J

Stokes' Settling and Chemical Reactivity of Suspended Particles in Natural Waters,
W76-03878 9-08 2L

NORTHWESTERN UNIV., EVANSTON, ILL. DEPT. OF MATERIALS SCIENCE AND ENGINEERING; AND NORTHWESTERN UNIV., EVANSTON, ILL. DEPT. OF GEOLOGICAL SCIENCES.
Milankovitch Solar Radiation Variations and Ice Age Ice Sheet Sizes,
W76-10949 9-20 2C

NORTHWESTERN UNIV., EVANSTON, ILL. TECHNOLOGICAL INST.
Water Quality Effects of a Dredging Disposal Area,
W76-08749 9-16 5C

NORTHWOOD PULP AND TIMBER LTD., PRINCE GEORGE (BRITISH COLUMBIA).
Secondary Effluent Treatment at Northwood Pulp and Timber Limited,
W76-09297 9-17 5D

NORWEGIAN DEFENSE RESEARCH ESTABLISHMENT, KJELLER.
Small Scale Topographical Influences on Precipitation,
W76-07556 9-15 2B

NORWEGIAN GEOTECHNICAL INST., OSLO.
Marine Soil Mechanics,
W76-07321 9-14 8D

NORWEGIAN PULP AND PAPER RESEARCH INST., OSLO.
Wood Fiber Boards: Raw Materials, Defibrating Conditions, Waste Water (Trefiberplater rastoff -- defibreringsbetingelser -- avlopsvann),
W76-12476 9-23 5B

NORWEGIAN WATER RESOURCES AND ELECTRICITY BOARD, OSLO.
Evaluation of Glacier Mass Balance by Observing Variations in Transient Snowline Positions,
W76-08322 9-16 2C

NOTRE DAME UNIV., IND. ENVIRONMENTAL HEALTH ENGINEERING.
Removal of Faecal Coliform from Waste Water by Proper Aerobic Biological Treatment,
W76-09171 9-17 5D

NOTTINGHAM (H. D.) AND ASSOCIATES, INC., MCLEAN, VA.
Wastewater Collection, (Literature Review),
W76-12631 9-23 5D

NOTTINGHAM UNIV. (ENGLAND). SCHOOL OF AGRICULTURE.
The Influence of Soil Water Content on the Uptake of Ions by Roots: II. Chloride Uptake and Concentration Gradients in Soil,
W76-11925 9-22 2G

NOVA SCOTIA TECHNICAL COLL., HALIFAX. DEPT. OF CIVIL ENGINEERING.
Urban Drainage - Problems and Possibilities,
W76-11648 9-22 5D

NOVA UNIV., FORT LAUDERDALE, FLA. LIFE SCIENCE CENTER.
Radiocarbon Ages of Ground Water as a Basis for the Determination of Safe Limits of Aquifer Exploitation,
W76-00363 9-01 5B

NOVOSIBIRSK SANITARY RESEARCH INST. (USSR).
Hygienic Standardization of DD and DDB Compounds in Water Bodies, (In Russian),
W76-02406 9-05 5B

NOYES DATA CORPORATION, PARK RIDGE, N.J.
How to Dispose of Toxic Substances and Industrial Wastes,
W76-11368 9-21 5E

NUCLEAR REGULATORY COMMISSION, WASHINGTON, D.C. DIV. OF TECHNICAL REVIEW.
Reproduction and Recruitment of the Brackish Water Clam Rangia Cuneata in the James River, Virginia,
W76-12728 9-24 5C

NUCLEAR REGULATORY COMMISSION, WASHINGTON, D.C. HYDROLOGIC ENGINEERING SECTION.
Two-Dimensional Model of Flow Toward Intakes,
W76-09965 9-18 2E

NUS CORP., PITTSBURGH, PA. CYRUS WM. RICE DIV.
A Survey of Wastewater Treatment Techniques for Steel Mill Effluents,
W76-01631 9-04 5D

NUS CORP., PITTSBURGH, PA. CYRUS WM. RICE DIV.

Entrainment of Organisms at Power Plants, with Emphasis on Fishes - An Overview,
W76-07492 9-15 5C

Vulnerability and Survival of Young Connecticut River Fish Entrained at a Nuclear Power Plant,
W76-08656 9-16 8I

NUS CORP., ROCKVILLE, MD. (ASSIGNEE).
Sewage Treatment Apparatus,
W76-03510 9-08 5D

O'BRIEN AND GERE ENGINEERS, INC. SYRACUSE, N. Y.
Bench-Scale High-Rate Disinfection of Combined Sewer Overflows; With Chlorine and Chlorine Dioxide,
W76-00371 9-01 5D

Food Processing Wastewater: Municipal Discharge or Separate Treatment,
W76-04740 9-10 5D

Drainage Study: Hunter Brook, Sucker Brook, Coldspring Brook,
W76-07090 9-14 4A

OAK RIDGE NATIONAL LAB., ECOLOGICAL SCIENCES INFORMATION CENTER.
Striped Bass, A Selected, Annotated Bibliography,
W76-04840 9-10 6E

OAK RIDGE NATIONAL LAB., TENN.
Adsorption of Inorganic Materials on Activated Carbon,
W76-01748 9-04 5D

Storm Runoff in the Vicinity of Oak Ridge, Tennessee,
W76-01841 9-04 2A

Activities and Needs Related to Radioactivity Standards for Environmental Measurements.
W76-01861 9-04 5A

Determination of Trace Organics in Municipal Sewage Effluents and Natural Waters By High-Resolution Ion-Exchange Chromatography,
W76-02507 9-06 5A

Studies on Vaporization and Halogen Decomposition of Methyl Mercury Compounds Using GC with a Microwave Detector,
W76-03638 9-08 5A

Water Research Program, Biennial Progress Report, for the Period March 15, 1962, to March 15, 1964, (Oak Ridge National Laboratory),
W76-04670 9-10 1B

Liquid-Liquid Extraction of Zinc with High-Molecular-Weight Amines From Alkaline Cyanide Solutions,
W76-04773 9-10 5D

Cross-Flow Filtration and Axial Filtration,
W76-05788 9-12 5D

Correlation of Radioactive Waste Treatment Costs and the Environmental Impact of Waste Effluents in the Nuclear Fuel Cycle for Use in Establishing 'As Low as Practicable' Guides--Appendix A. Preparation of Cost Estimates for Volume 1, Milling of Uranium Ores,
W76-06614 9-13 5D

Preliminary Design of a Diesel-Powered Vapor-Compression Plant for Evaporation of Seawater,
W76-06750 9-13 3A

Steady Wind-Driven Currents in a Large Lake with Depth-Dependent Eddy Viscosity,
W76-06930 9-14 2H

Instrumentation Guide for Seawater Distillation Plants,
W76-07320 9-14 3A

Water Movement Through Saturated-Unsaturated Porous Media: A Finite-Element Galerkin Model,
W76-07569 9-15 2F

Filtration Techniques for Purification of Kraft Pulp Mill and Bleach Plant Wastes,
W76-07643 9-15 5D

Determination of Zinc and Cadmium in Environmentally Based Samples by the Radiofrequency Spectrometric Source,
W76-07702 9-15 5A

Interaction of Plutonium with Complexing Substances in Soils and Natural Waters,
W76-08605 9-16 5B

Evaluation of Entrainment Effect,
W76-08629 9-16 8I

Temperature Selection By Fish--A Factor in Power-Plant Impact Assessments,
W76-08882 9-17 5C

A Method for Estimating the Toxicity of Chlorinated Discharges,
W76-08928 9-17 5C

A Specific-Activity and Concentration Model Applied to Cesium Movement in an Oligotrophic Lake,
W76-10275 9-19 5C

The Identification of Phthalic Acid Esters in the Tissues of Cyprinodont Fish and Their Activity as Heartrate Depressors,
W76-10344 9-19 5A

Environmental Control in Animal Shelters Using Power Plant Thermal Effluents,
W76-10507 9-20 5G

An Evaluation of Two Hydrograph Separation Methods of Potential Use in Regional Water Quality Assessment,
W76-12691 9-24 5G

Thermal Effects on Aquatic Organisms, Annotated Bibliography of the 1974 Literature.
W76-12692 9-24 5C

Correlation of Radioactive Waste Treatment Costs and the Environmental Impact of Waste Effluents in the Nuclear Fuel Cycle for Use in Establishing as Low as Practicable Guides-Fabrication of Light-Water Reactor Fuels Containing Plutonium,
W76-12694 9-24 5C

Thermal Effects, (Literature Review),
W76-12703 9-24 5C

Thermal Effects, (Literature Review),
W76-12736 9-24 5C

The Impact of Increased Fuel Costs and Inflation on the Cost of Desalting Sea Water and Brackish Waters,
W76-12778 9-24 3A

The Environmental Impact of Water Chlorination.
W76-12876 9-24 5C

Chlorination of Organics in Cooling Waters and Process Effluents,
W76-12882 9-24 5A

The Potential for Increased Mutagenic Risk to the Human Population Due to the Products of Water Chlorination,
W76-12887 9-24 5C

Investigating the Effects of Chlorinated Organics,
W76-12892 9-24 5C

A Kinetic Model for Predicting the Composition of Chlorinated Water Discharged from Power Plant Cooling Systems,
W76-12894 9-24 5C

Assessing Toxic Effects of Chlorinated Effluents on Aquatic Organisms: A Predictive Tool,
W76-12895 9-24 5C

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W76-08592 9-16 5C

OAK RIDGE NATIONAL LAB., TENN. ENVIRONMENTAL SCIENCE DIV.
Vertical Movement of Zooplankton in Response to Heated Water,
W76-03483 9-07 5C

OAK RIDGE NATIONAL LAB., TENN. ENVIRONMENTAL SCIENCES DIV.
Effects of Temperature on Food Ingestion Rate and Absorption, Retention, and Equilibrium Burden of Phosphorus in a Aquatic Snail, Goniobasis Claveaformis Lea,
W76-03036 9-07 5C

Effects of Three Heating Rates on the Critical Thermal Maximum of Bluegill,
W76-03473 9-07 5C

Relative Sensitivity of Different Developmental Stages of Carp Eggs to Thermal Shock,
W76-03474 9-07 5C

Acid Rock in the Great Smokies: Unanticipated Impact on Aquatic Biota of Road Construction in Regions of Sulfide Mineralization,
W76-03770 9-08 5C

Status Report on Radioactivity Movement from Burial Grounds in Melton and Bethel Valleys,
W76-04834 9-10 5B

A Radiological Assessment of Radionuclides in Liquid Effluents of Light Water Nuclear Power Stations,
W76-04836 9-10 5C

Bioaccumulation Factors for Radionuclides in Freshwater Biota,
W76-04846 9-10 5C

Responses of Bass to Natural and Artificial Temperature Regimes,
W76-04848 9-10 5C

Biological Denitrification and its Application in Treatment of High-Nitrate Waste Water,
W76-05792 9-12 5D

A Theoretical Basis for Ecosystem Analysis with Particular Reference to Element Cycling,
W76-10268 9-19 5C

Radiocesium Cycling in Vegetation and Soil,
W76-10296 9-19 5B

Cerium and Cobalt Movement with Litter Leachate in a Forest Soil,
W76-10311 9-19 5B

Effects of Tree Species, Temperature, and Soil on Transfer of Manganese-54 from Litter to Roots in a Microcosm,
W76-10317 9-19 5C

OAK RIDGE NATIONAL LAB., TENN. ENVIRONMENTAL SCIENCES DIV.; AND OAK RIDGE NATIONAL LAB., TENN. COMPUTER SCIENCES DIV.
Environmental Effects of Chromium and Zinc in Cooling-Water Drift,
W76-04822 9-10 5C

OAK RIDGE NATIONAL LAB., TENN. INSTRUMENTATION AND CONTROLS DIV.
A Compendium of Radionuclides Found in Liquid Effluents of Nuclear Power Stations,
W76-04835 9-10 5C

OCEAN-ATMOSPHERE RESEARCH INST., CAMBRIDGE, MASS.
On a Thermal Lag in the North Atlantic Ocean During a Climatic Change,
W76-08127 9-16 2L

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Solar Energy Technology, State of the Art, An Annotated Bibliography,
W76-06565 9-13 3A

OCEAN SYSTEMS, INC., RESTON, VA.
Development of a High Seas Oil Recovery System, Phase II, Appendix I. Design Studies and Specifications,
W76-01225 9-03 5G

Development of a High Seas Oil Recovery System, Phase II, Appendix II. Materials and Component Tests,
W76-01226 9-03 5G

Development of a High Seas Oil Recovery System, Phase II, Appendix III. System Tests,
W76-01227 9-03 5G

Development of a High Seas Oil Recovery System, Appendix II,
W76-01835 9-04 5G

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Effect of the Degree of Vacuum Used in Filtration on the Simultaneous Measurement of Assimilation and Excretion by Phytoplankton Organisms, (In French),
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Primary Production in the Mauritanian Upwelling in March 1973, (In French),
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The Selection of Prey in 3 Malacophagous Fishes of Lake Chad, (In French),
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Geochemistry and Natural Ionic and Isotopic Tracing; Two Complementary Ways to Study the Natural Salinity Regime of the Hydrological System of Lake Chad,
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Suspended Solids in Water.
W76-03876 9-08 2L

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International Conference on Drag Reduction,
W76-04316 9-09 8B

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Finite Element Model for Backwater Computation,
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Biological Control of Alligator Weed,
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The Genesis and Function of the Fourth Water Resources Council Account,
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A Progress Report on the International Convention on Civil Liability for Oil Pollution Damage and its Supplementary Fund Convention,
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Requiring Polluters to Pay for Aquatic Natural Resources Destroyed by Oil Pollution,
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Coanda Effect Oil-Water Separator,
W76-08209 9-16 5G

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Biodegradation of Oil on Water Surfaces,
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OWRT Interest in New Technologies for Water Treatment,
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The Availability of Desalting for Water Supply from Saline Sources,
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Floating Oil Barrier,
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Deflection-Stiffness Characteristics of Corrugated Plastic Tubing,
W76-13018 9-24 4A

Effect of Openings on Inflow into Corrugated Drains,
W76-13021 9-24 4A

OHIO BUREAU OF FOODS, CINCINNATI. VIROLOGY BRANCH.
Persistence of Virus on Sewage-Irrigated Vegetables,
W76-12634 9-23 5B

OHIO COOPERATIVE WILDLIFE RESEARCH UNIV, COLUMBUS.
A Simulation Model of Tritium Kinetics in a Freshwater Marsh,
W76-10812 9-20 5B

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Hydrogeologic and Other Considerations Related to the Selection of Sanitary-Landfill Sites in Ohio,
W76-10084 9-19 5D

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Effects of Environmental Legislation of Cattle Feedlot Location,
W76-07159 9-14 5G

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Elongation Characteristics of Corrugated Plastic Tubing,
W76-01064 9-03 3F

Recycling Spent Cucumber Pickling Brines,
W76-04732 9-10 5D

Re-Evaluation of the Effects of Man-Made Modifications on Gordon Creek Between 1887 and 1973 and Especially as Regards its Fish Fauna,
W76-09407 9-18 4C

OHIO STATE UNIV., COLUMBUS. ATMOSPHERIC SCIENCES PROGRAM; AN) OHIO STATE UNIV., COLUMBUS. DEPT. O ELECTRICAL ENGINEERING.
Potential Use of Radar Differential Reflectivity Measurements at Orthogonal Polarizations for Measuring Precipitation,
W76-06927 9-14 2B

OHIO STATE UNIV., COLUMBUS. COOPERATIVE EXTENSION SERVICE.
Drainage Maintenance Programs in Ohio Counties,
W76-13009 9-24 4A

OHIO STATE UNIV., COLUMBUS. DEPARTMENT OF CIVIL ENGINEERING.
Designing Regionalized Waste Water Treatment Systems,
W76-13166 9-24 5D

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Simulated Beef Feedlot Behavior Under Alternative Water Pollution Control Rules,
W76-02720 9-06 5G

Economic Impacts of Alternative Water Pollution Control Rules on Beef Feedlots of Less Than 1000 Head Capacity,
W76-07158 9-14 5D

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The Problem of Farm Animal Waste Disposal,
W76-01037 9-03 5E

New Waste Treatment System is used for Hogs,
W76-04436 9-09 5D

Nutrient and Sediment Characteristics of Tile Effluent in Ohio,
W76-08121 9-16 5B

Sediment from Drainage Systems for a Heavy Soil,
W76-13001 9-24 3F

OHIO STATE UNIV., COLUMBUS. DEPT. OF AGRONOMY.
Loess in Ohio in Relation to Several Possible Source Areas: I. Physical and Chemical Properties,
W76-06399 9-13 2J

Loess in Ohio in Relation to Several Possible Source Areas: II. Elemental and Mineralogical Composition,
W76-06400 9-13 2J

Drainage System Effects on Physical Properties of a Lakebed Clay Soil,
W76-09259 9-17 2G

OHIO STATE UNIV., COLUMBUS. DEPT. OF BOTANY.
Changes in the Algal Flora of East Harbor, Ottawa County, Ohio, Since 1900,
W76-08834 9-17 5C

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Oxidation of Ammonia in Water by Ferrates (VI) and (IV),
W76-10611 9-20 5D

OHIO STATE UNIV., COLUMBUS. DEPT. OF CIVIL ENGINEERING.
Systematic Approaches to Environmental Impact Assessment: An Evaluation,
W76-06431 9-13 6G

Coal Gasification in Southeastern Ohio: Water Supply and Demand,
W76-10002 9-19 3E

Studies on the Toxicity of Ammonia, Nitrate and Their Mixtures to the Common Guppy,
W76-10811 9-20 5C

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Chloride Contamination in Alum Creek, Central Ohio.
W76-00910 9-02 5B

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Corrosion Literature: Selected Bibliography.
W76-00393 9-01 8G

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Bioflocculation and the Accumulation of Chemicals by Floc-Forming Organisms,
W76-02267 9-05 5D

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Impact of a Mainstream Impoundment on the Fish Fauna of Big Walnut Creek a Scioto River Tributary in Central Ohio,
W76-12465 9-23 6G

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Chemistry of Water Supply, Treatment, and Distribution,
W76-00102 9-01 5F

Effect of Aluminum(III) Hydrolysis on Alum Coagulation,
W76-00110 9-01 5F

OHIO STATE UNIV., PUT-IN-BAY. CENTER FOR LAKE ERIE AREA RESEARCH.
Zooplankton of Western Lake Erie at Put-in-Bay: A Quantitative Study, April 1973-March 1974,
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Laboratory Estimates of the Seasonal Final Temperature Preferenda of Some Lake Erie Fish,
W76-11280 9-21 2H

OHIO STATE UNIV. RESEARCH FOUNDATION, COLUMBUS. INST. OF POLAR STUDIES.
Climatological Implications of Microparticle Concentrations in the Ice Core from 'Byrd' Station, Western Antarctica,
W76-07551 9-15 2C

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Coal Mining and Its Effect on Water Quality,
W76-06950 9-14 5B

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A Comparison of the Abundance and Diversity of Fossil Pigments in Wetland Peats and Woodland Humus Layers,
W76-11601 9-21 5C

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Handling and Treatment of Oil-Base Drilling Muds,
W76-08913 9-17 8G

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Studies of Flocculation and Sedimentation Treatment of Pulp Mill Effluents: An Approach of a Closed System Using Calcium Aluminate Hydrates (In Japanese),
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Interception of Rainfall at Different Growth Stages by the Canopy of Tobacco Plants, (In Japanese).
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Nitrosophenol and Nitrosonaphthol Derivatives as Reagents for Spectrophotometric Determina-

tion of Iron and Determination of Micro-Amounts in Waters with 2-Nitroso-5-Dimethylaminophenol,
W76-06303 9-13 5A

OKLAHOMA COOPERATIVE FISHERY UNIT, STILLWATER.
Eutrophication in the Great Plains,
W76-00437 9-01 5B

Fish Growth Response to Mechanical Mixing of Lake Arbuckle, Oklahoma,
W76-07587 9-15 5C

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Effects of Initial Flooding on Forest Vegetation at Two Oklahoma Lakes,
W76-08831 9-17 4A

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The Evaluation of Microbial Pathogens in Sewage and Sewage-Grown Fish,
W76-03545 9-08 5C

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Aquaculture as a Means to Achieve Effluent Standards,
W76-03554 9-08 5D

OKLAHOMA STATE UNIV., STILLWATER.
Application of Activated Sludge Design and Operation,
W76-10221 9-19 5D

OKLAHOMA STATE UNIV., STILLWATER. DEPT. OF AGRICULTURAL ENGINEERING.
Improvement of Water Application of Self-Propelled Sprinkler Irrigation Systems,
W76-00200 9-01 3F

Basic Performance Parameters for Oxygenation and Liquid Circulation in Rotor-Aerated Liquid Waste Systems,
W76-01092 9-03 5D

Resistance to Flow in a Combined Channel,
W76-05273 9-11 8B

Automated Pond Water Treatment Unit,
W76-11340 9-21 5F

OKLAHOMA STATE UNIV., STILLWATER. DEPT. OF AGRONOMY.
Simultaneous Transport of Water and Adsorbed Solutes Through Soil Under Transient Flow Conditions,
W76-00032 9-01 2G

Fluometuron and Water Content Distributions During Infiltration: Measured and Calculated,
W76-03123 9-07 5B

OKLAHOMA STATE UNIV., STILLWATER. DEPT. OF CIVIL ENGINEERING.
Prediction of Assimilation Capacity in Receiving Streams, Part I,
W76-00600 9-02 5B

Prediction of Assimilation Capacity in Receiving Streams, Part II,
W76-00601 9-02 5B

OKLAHOMA STATE UNIV., STILLWATER. DEPT. OF GEOGRAPHY.
Land Use Changes and Reservoir Development: An Application of Land Use Information Systems,
W76-09905 9-18 4A

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Feasibility of Microbial Decomposition of Organic Wastes Under Conditions in Deep Wells,
W76-12688 9-24 5D

OKLAHOMA STATE UNIV., STILLWATER. DEPT. OF ZOOLOGY.
Uptake and Translocation of Ammonia by Freshwater Hydrophytes,
W76-01161 9-03 2I

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Biological and Water Quality Effects of Artificial Destratification of Lake of the Arbuckles,
W76-04385 9-09 5C

Effects of Artificial Destratification on Populations of Benthic Macroinvertebrates and Zooplankton in Ham's Lake and Arbuckle Reservoir,
W76-05017 9-11 5C

OKLAHOMA STATE UNIV., STILLWATER. SCHOOL OF CIVIL ENGINEERING.
One-Step Nitrification and Carbon Removal,
W76-00352 9-01 5D

The Effects of Regional Development on the Illinois River Environment,
W76-01690 9-04 5B

Identification and Treatment of Dispersive Clay Soils,
W76-06611 9-13 8D

Biological Treatment of Waste with High Ash Content Using a Hydrolytically Assisted Extended Aeration Process,
W76-10231 9-19 5D

One- Versus Two-State Nitrification in the Activated Sludge Process,
W76-11203 9-21 5D

OKLAHOMA STATE UNIV., STILLWATER. SCHOOL OF MECHANICAL AND AEROSPACE ENGINEERING.
Hydraulic Model Studies of Mechanical Mixing Devices in Stratified Lakes,
W76-11495 9-21 8B

OKLAHOMA STATE UNIVERSITY, STILLWATER. DEPT. OF AGRICULTURAL ENGINEERING.
Evaluating a Low-Energy, High-Volume Pump for Odor Reduction from Livestock Waste Lagoons by Mixing,
W76-12344 9-23 5G

OKLAHOMA UNIV., NORMAN.
The Design of Water Quality Management Projects with Inadequate Data,
W76-09623 9-18 5G

OKLAHOMA UNIV., NORMAN. BIOLOGICAL STATION.
Viability of Algae in the Digestive Tracts of Two Cyprinodontids,
W76-04149 9-09 2I

OKLAHOMA UNIV., NORMAN. BUREAU OF WATER AND ENVIRONMENTAL RESOURCES RESEARCH.
Aggregate Modeling of Water Demands for Developing Countries Utilizing Socio-Economic Growth Patterns,
W76-08083 9-15 6D

Interdisciplinary/Interinstitutional Requirements for Water Resource Planning: Processes to Enhance Cooperation,
W76-10609 9-20 6B

OKLAHOMA UNIV., NORMAN. DEPT. OF CHEMISTRY.
Solute Properties of Water,
W76-04672 9-10 1B

OLD DOMINION UNIV., NORFOLK, VA.
Laser Applications to Atmospheric Sciences - A Bibliography,
W76-08323 9-16 10C

OLD DOMINION UNIV., NORFOLK, VA. DEPT. OF GEOPHYSICAL SCIENCES.
Vertical Electrical Resistivity Soundings to Locate Ground Water Resources: A Feasibility Study,
W76-05835 9-12 4B

OLD DOMINION UNIV., NORFOLK, VA. INST. OF OCEANOGRAPHY.
Field Performance of Permeable Breakwater,
W76-08684 9-16 8A

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Atmospheric Aerosols: A Literature Summary of Their Physical Characteristics and Chemical Composition,
W76-12996 9-24 5A

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Precast Concrete Piles Cut Plant Construction Cost,
W76-01560 9-04 8F

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Thermal Discharge Studies on the Great Lakes-the Canadian Experience,
W76-08869 9-17 5G

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Nearshore Currents and Water Temperatures Along the North Shore of Lake Ontario Between Pickering and Cobourg,
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Examination of Sewage and Sewage Sludge for Enteroviruses, Volume 1.
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Evaluation of Pfizer Selective Enterococcus and KF Media for Recovery of Fecal Streptococci from Water by Membrane Filtration,
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Geochemical and Biogeochemical Exploration Research Near Early Precambrian Porphyry-Type Molybdenum-Copper Mineralization, Northwestern Ontario, Canada,
W76-03315 9-07 5A

ONTARIO MINISTRY OF THE ENVIRONMENT, REXDALE. LAB. SERVICES BRANCH.
Source Identification of Fuel Oil Spills,
W76-11314 9-21 5A

ONTARIO MINISTRY OF THE ENVIRONMENT, TORONTO.
Studies on Subsurface Movement of Effluent from Private Sewate Disposal Systems using Radioactive and Dye Tracers, Part 2, 1973-74,
W76-04000 9-08 5B

Pollution Effects on Surface Waters and Ground Waters, (Literature Review),
W76-10104 9-19 5C

Safety in Water and Wastewater Plants,
W76-11652 9-22 5G

ONTARIO MINISTRY OF THE ENVIRONMENT, TORONTO. APPLIED SCIENCE SECTION.
Spray Runoff Disposal of Waste Stabilization Pond Effluent,
W76-04161 9-09 5D

Movement of Tracers Through Soil,
W76-05701 9-12 5B

Energy Requirements for Conventional and Advanced Wastewater Treatment,
W76-05702 9-12 5D

Sorption Capabilities of Soils for Phosphate Removal,
W76-10673 9-20 5D

ONTARIO MINISTRY OF THE ENVIRONMENT, TORONTO. ENVIRONMENTAL APPROVALS BRANCH.
Environmental Assessment: A Planning Tool,
W76-11649 9-22 6G

ONTARIO MINISTRY OF THE ENVIRONMENT, TORONTO. TRAINING, CERTIFICATION AND SAFETY SECTION.
Training and Certification,
W76-11654 9-22 5G

ONTARIO MINISTRY OF THE ENVIRONMENT, TORONTO. WASTEWATER TREATMENT SECTION.
General Considerations in Wastewater Disinfection,
W76-10220 9-19 5D

ONTARIO MINISTRY OF THE ENVIRONMENT, TORONTO. WATER RESOURCES BRANCH.
A Limnological Survey of Nearshore Waters of Lake Superior,
W76-11321 9-21 2H

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W76-13120 9-24 5C

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Secondary Treatment at Ontario-Minnesota Pulp and Paper Company Limited, Fort Frances, Ontario,
W76-09301 9-17 5D

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W76-07685 9-15 5D

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W76-04164 9-09 5D

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Response of Water-Hyacinth to Laser Radiation,
W76-12406 9-23 4A

ORANGE COUNTY WATER DISTRICT, FOUNTAIN VALLEY, CALIF. BOARD OF DIRECTORS.
AWT Energy Needs a Prime Concern,
W76-11198 9-21 5D

Water Factory 21,
W76-11273 9-21 5D

AWT Energy Needs - A Prime Concern,
W76-12919 9-24 5D

OREGON COLL. OF EDUCATION, MONMOUTH.
Cycling of Fe55 and Zn65 in Columbia River Carp Following Reactor Shutdown,
W76-09508 9-18 5C

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Oregon Water Quality Control Regulations.
W76-06497 9-13 5G

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W76-08221 9-16 5G

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W76-00289 9-01 4B

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W76-00887 9-02 7C

Monitoring Wells,
W76-09558 9-18 4B

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Disposal of Farm Animal Wastes Through the Soil,
W76-01384 9-03 5B

Probability Distributions of Breaking Wave Heights Emphasizing the Utilization of the Jonswap Spectrum,
W76-09721 9-18 2L

OREGON STATE UNIV., CORVALLIS. DEPT. OF AGRICULTURAL AND RESOURCE ECONOMICS.
Economic Evaluation of Proposed Water Conservation Practices on Established Irrigation Districts: A General Methodology and Application to Three Districts in Oregon,
W76-08431 9-16 3F

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W76-09236 9-17 3F

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Model to Predict the Performance of Feedlot Control Facilities at Specific Oregon Locations,
W76-03971 9-08 5D

A Model to Predict the Performance of Feedlot Runoff Control Facilities at Specific Oregon Locations,
W76-06382 9-13 5B

Swine Waste Nutrient Recovery System Based on the Use of Thermal Discharges,
W76-07179 9-14 5D

OREGON STATE UNIV., CORVALLIS. DEPT. OF ANTHROPOLOGY.
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W76-01805 9-04 6G

Social Well-Being: Problems and Prospects,
W76-05368 9-11 6B

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Tidal Flats in Estuarine Water Quality Analysis,
W76-02071 9-05 5C

Mathematical Model of Flow in a Stream-Aquifer System,
W76-09966 9-18 2E

Verification Studies of the Biofilm Model for Bacterial Substrate Utilization,
W76-10247 9-19 5D

OREGON STATE UNIV., CORVALLIS. DEPT. OF ENTOMOLOGY.
Use of Emergence Data for Estimating Annual Production of Aquatic Insects,
W76-12597 9-23 2I

OREGON STATE UNIV., CORVALLIS. DEPT. OF FISHERIES AND WILDLIFE.
Decomposition and Disappearance of Organic Debris in Three Replicate Streams with Different Nitrate Input,
W76-02001 9-05 5B

The Lethal and Sublethal Effects of a Zirconium Process Effluent on Juvenile Salmonids,
W76-03647 9-08 5C

Effects of Pulp and Paper Mill Effluents on Growth and Production of Fish in Experimental Stream Channels.
W76-04509 9-10 5C

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W76-06408 9-13 2C

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W76-09235 9-17 6E

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W76-04801 9-10 4B

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Anchor-Last Deployment Simulation by Lumped Masses,
W76-07559 9-15 2L

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W76-01689 9-04 5D

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W76-11191 9-21 5C

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W76-12681 9-24 5C

Relation of Water Temperature to Ceratomyxosis in Rainbow Trout (Salmo Gairdneri) and Coho Salmon (Oncorhynchus Kisutch),
W76-12716 9-24 5C

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W76-01806 9-04 5D

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W76-09237 9-17 6D

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W76-10171 9-19 5G

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W76-02724 9-06 4A

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W76-02937 9-06 4C

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W76-00557 9-02 2L

Ionization of Water in Seawater,
W76-01239 9-03 1A

Particle Size Distributions in a Region of Coastal Upwelling Analyzed by Characteristic Vectors,
W76-02697 9-06 5B

Spatial Distribution of the Index of Refraction of Suspended Matter in the Ocean,
W76-03882 9-08 2L

Distribution of Suspended Particles in the Equatorial Pacific Ocean,
W76-03892 9-08 2L

A Freely Falling Probe for Small-Scale Temperature Gradients,
W76-04949 9-10 2H

Modal Decomposition of the Velocity Field Near the Oregon Coast,
W76-04974 9-10 2L

A Comparison of the Responses of Identical Cup Anemometers Mounted on a Spar and a Toroid Buoy,
W76-06392 9-13 7B

Activity Coefficients of Bicarbonates and Carbonates in Seawater,
W76-06720 9-13 5C

Some Aspects of the Forced Response of Stratified Coastal Regions,
W76-06932 9-14 2L

Ekman Veering Observed Near the Ocean Bottom,
W76-08129 9-16 2L

Dense Effluent Dispersion in a Stream,
W76-08316 9-16 5B

Some Three-Dimensional Characteristics of Low-Frequency Current Fluctuations Near the Oregon Coast,
W76-08336 9-16 2L

Oregon Coast Shoreline Changes Due to Jetties,
W76-08342 9-16 8B

A Physical Model for the Rate of Deposition of Fine-Grained Sediments in the Deep Sea,
W76-08736 9-16 2J

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W76-12209 9-23 2B

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W76-09230 9-17 6B

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W76-09649 9-18 5C

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W76-12751 9-24 5C

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W76-05658 9-12 5G

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W76-05614 9-12 4C

Seasonal Reversal of Flood-Tide Dominant Sediment Transport in a Small Oregon Estuary,
W76-07783 9-15 2L

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W76-06055 9-12 6E

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W76-05709 9-12 5A

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W76-08984 9-17 5D

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W76-00400 9-01 8B

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W76-06675 9-13 2A

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Reverse Osmosis System Corrects High BOD Wastes: Yields Net Operating Savings,
W76-08486 9-16 5D

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W76-02457 9-05 2G

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W76-03359 9-07 2D

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W76-00469 9-01 5D

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W76-01926 9-04 5C

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W76-08449 9-16 5B

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W76-04282 9-09 5D

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W76-07337 9-14 6E

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W76-05302 9-11 5D

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W76-00742 9-02 3F

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W76-08117 9-16 3A

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W76-05089 9-11 5B

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W76-05472 9-11 5C

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W76-05624 9-12 5B

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W76-06220 9-13 5C

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W76-06221 9-13 5C

Taxonomy of Klebsiella pneumoniae Isolated from Pulp/Paper Mill Wastewater,
W76-06645 9-13 5C

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W76-10525 9-20 5C

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W76-10526 9-20 5C

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W76-10527 9-20 5C

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W76-10528 9-20 5C

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W76-10529 9-20 5C

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W76-12848 9-24 5C

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W76-06700 9-13 5C

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W76-06702 9-13 5C

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W76-09233 9-17 8I

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W76-04272 9-09 5G

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W76-01337 9-03 8A

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W76-11784 9-22 5G

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Pesticide Pollution and its Ecological Implications, (In French),
W76-07983 9-15 5C

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The Ice Nucleating Properties of an Ultrafine Aerosol of Pure Silver Iodide,
W76-02554 9-06 2B

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Water Economy of a Soil on Weathered Granite Under a Spruce Grove, (In French),
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Effect of Lindane on Trout Fry (Salmo Irideus Gibb.) Changes in Glycolytic Enzymes, (In French),
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PARIS (FRANCE).

The Sewers of Paris (Les Egouts de Paris),
W76-01293 9-03 5D

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Radioactivity in the Mediterranean Sea, (In Italian),
W76-11558 9-21 5A

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First Results on Artificial Reproduction of Bass, Morone Labrax (L.), Reared in Brackish Water, (In Italian),
W76-07298 9-14 2L

PARMA UNIV. (ITALY). LABORATORIO DI ECOLOGIA.
Density and Biomass of Phytoplankton Populations in an Apennine Lake (Lake Santo Parmense) During the Winter Freeze, (In Italian),
W76-07316 9-14 5C

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Combination Providing Safety Berthing, Unloading of Oil, and Conduit Carriage to Refineries on Land, of Large Deep-Sea-Requiring Tankers,
W76-09865 9-18 5G

PARSONS, BRINCKERHOFF, QUADE AND DOUGLAS, INC., DENVER, COLO.
True Cost of Conventional Water,
W76-01611 9-04 6C

PARSONS, BRINCKERHOFF, QUADE AND DOUGLAS, INC., NEW YORK.
Denver Seeks Tomorrow's Water Today,
W76-01779 9-04 4A

Rehabilitating an 80-Year Old Sewer System,
W76-05764 9-12 5D

Evaluation and Control of Soil Erosion in Urbanizing Watersheds,
W76-09742 9-18 4D

Management of Flood Control and Drainage in the Urbanizing Zone,
W76-09750 9-18 4A

PARSONS (RALPH M.) CO., PASADENA, CALIF.
The Ralph M. Parsons Company Conceptual Design of a 50 MGD Desalination Plant.
W76-06151 9-13 3A

PARSONS (RALPH M.) CO., PASADENA, CALIF. SYSTEMS DIV.
Burn That Sludge, Incineration Along with Refuse May Answer Some Energy Questions,
W76-03826 9-08 5E

Quantitative Assessment of Environmental Impact,
W76-12528 9-23 6G

PASSAVANT CORP., BIRMINGHAM, ALA.
Waste Sludge Treatment with Pressure Filtration,
W76-03676 9-08 5D

PASSAVANT-WERKE, MICHELBACH (WEST GERMANY). MICHELBACHERHUTTE. (ASSIGNEE).
Apparatus for Continuous Dewatering of Aqueous Suspensions,
W76-08202 9-16 5D

PASSIAC VALLEY SEWERAGE COMMISSION, NEWARK, N.J.
EPA Money Proposals Cause Concern,
W76-01783 9-04 5G

PATRAS UNIV. (GREECE). SCHOOL OF CIVIL ENGINEERING.
Dimensionless Solution of Dam-Break Flood Waves,
W76-08343 9-16 8B

PAULSEN WIRE ROPE CORP., PITTSBURGH, PA.
At the End of Your Rope...,
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Oscillopolarographic Determination of Cyanide in Waste Electroplating Industrial Effluents,
W76-09822 9-18 5A

PEABODY COAL CO., ST. LOUIS, MO.
Water and Energy Requirements in the Mining and Processing of Coal, Including Land Reclamation,
W76-00753 9-02 6D

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Apparatus for Removing Surface Films From Liquids,
W76-07653 9-15 5D

PEABODY WELLES INC., ROSCOE, ILL. RESEARCH AND DEVELOPMENT DIV.
Important Considerations in Designing Activated Sludge Processes,
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PEDAGOSKE AKADEMIYA, OSIJEK (YUGOSLAVIA).
Seasonal Oscillations in Phytoplankton in the Protected Region of the Swampy Area of Kopachevo (Kopacki Rit), (In Serbo-Croatian),
W76-05000 9-10 5C

PENN PACKING CO., PHILADELPHIA, PA.
Changing Hog Hair from Costly Nuisance to Asset.
W76-08297 9-16 5D

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Land Disposal of Wastewater in the Commonwealth of Pennsylvania - A Regulatory View,
W76-11644 9-22 5D

PENNSYLVANIA DEPT. OF ENVIRONMENTAL RESOURCES, HARRISBURG.
Federal-State Relations in Water Quality Planning,
W76-01003 9-03 5G

Legal Perspective on Water Quality Management,
W76-07221 9-14 5G

Tioga River Mine Drainage Abatement Project,
W76-12874 9-24 5G

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Pennsylvania Uses Creative Approach to Water Quality Management Planning,
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Flooding as the Result of Hurricane Agnes, and its Effect on a Macrobenthic Community in an Infertile Headwater Stream in Central Pennsylvania,
W76-06748 9-13 5C

PENNSYLVANIA STATE UNIV., MIDDLETOWN. DEPT. OF ENGINEERING.
Odor Control with Hydrogen Peroxide,
W76-12932 9-24 5D

PENNSYLVANIA STATE UNIV., READING. EXTENSION SERVICE.
Economic and Environmental Aspects of Daily and Annual Dairy Manure Spreading Systems in a Small Watershed,
W76-07161 9-14 5D

PENNSYLVANIA STATE UNIV., UNIVERSITY PARK.
Controlling Manure Runoff,
W76-00444 9-01 5D

Total Mercury in Some Fish and Shellfish Along the Mexican Coast,
W76-01925 9-04 5C

Heavy Metals in Waters and Soil Associated with Several Pennsylvania Landfills,
W76-02569 9-06 5A

Grass Filtration for Final Treatment of Wastewater,
W76-03558 9-08 5D

Solid Waste Handling,
W76-03977 9-08 5E

Environmental Concerns and Decisions for the Mining Inudstry,
W76-04093 9-09 5G

Municipal Wastewater Odor Still a Problem--Part 1,
W76-05773 9-12 5D

Animal Waste Contribution to Nitrate Nitrogen in Soil,
W76-07188 9-14 5B

Effects of Crude Oil on Corals,
W76-11812 9-22 5C

Microbiology of Waste Treatment, (Literature Review),
W76-12628 9-23 5D

PENNSYLVANIA STATE UNIV., UNIVERSITY PARK. CENTER FOR THE STUDY OF ENVIRONMENTAL POLICY.
Residual Charges and Profits,
W76-03267 9-07 5G

Effluent Charges, Environmental Quality and Other National Goals: A Qualification,
W76-03268 9-07 5G

A Sociological Assessment of Economic Incentives for Industrial Pollution Abatement,
W76-03269 9-07 5G

Financial Incentives and Pollution Control. A Case Study,
W76-03270 9-07 5G

The Political Economy of Effluent Charges,
W76-06228 9-13 5G

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Economics of Manure Handling,
W76-00479 9-01 5D

PENNSYLVANIA STATE UNIV., UNIVERSITY PARK. DEPT. OF AGRICULTURAL ENGINEERING.
Graphic Determination of Sub-Main Pipe Size for Solid-Set Sprinkler Irrigation on Steep, Non-Uniform Slopes,
W76-08682 9-16 3F

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The Economics of Recycling Converted Poultry Waste Through Cattle,
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Differences in Low PH Tolerance Among Strains of Brook Trout (Salvelinus Fontinalis),
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Factor Analysis of Drainage Basin Properties: Classification of Flood Behavior in Terms of Basin Geomorphology,
W76-04939 9-10 2A

Municipal Wastewater Odor Still a Problem, Part 2,
W76-09044 9-17 5D

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Water Authority Rate Making,
W76-09717 9-18 6C

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Revegetating Bituminous Strip-Mine Spoils with Municipal Wastewater, Part I: Grass and Legume Establishment,
W76-03821 9-08 5E

Revegetating Bituminous Strip-Mine Spoils with Municipal Wastewater, Part II: Quality the Leacheate and Spoil Chemical Changes,
W76-06343 9-13 5D

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Influence of the Choice of the Plume Diffusion Formula on the Salt-Deposition-Rate Calculation,
W76-04829 9-10 5B

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Neutron Activation Analysis of Some of the Biologically Active Trace Elements in Fish,
W76-06753 9-13 5A

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Manure Reduction and Conversion Methods of the Future,
W76-00478 9-01 5D

Modify Your Poultry House for Manure Drying,
W76-00480 9-01 5D

Some Potential Uses for Dehydrated Poultry Wastes,
W76-00482 9-01 5D

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Limestone Barriers to Neutralize Acidic Streams,
W76-02938 9-06 5G

Proceedings - Conference on Water Conservation and Sewage Flow Reduction with Water-Saving Devices.
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Water Pollution Abatement Through Forest Irrigation with Municipal Waste Water,
W76-06668 9-13 5D

Municipal Watershed Management Symposium Proceedings.
W76-06812 9-14 4D

Chemical Kinetics of Neutralization of Acidic Water by Crushed Limestone,
W76-06946 9-14 5D

Use of Crushed Limestone to Neutralize Acid Wastes,
W76-08225 9-16 5G

Role of Carbonate Rocks in Modifying Flood Flow Behavior,
W76-09784 9-18 2A

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Kinetics of Limestone Dissolution by Acid Waste Waters,
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W76-10630 9-20 5D

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Land Treatment Versus Conventional Advanced Treatment of Municipal Wastewater,
W76-04937 9-10 5D

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The Penn State Orser System for Processing and Analyzing ERTS Data,
W76-02060 9-05 7C

Interdisciplinary Applications and Interpretation of EREP Data Within the Susquehanna River Basin,
W76-13188 9-24 7B

PENNSYLVANIA STATE UNIV., UNIVERSITY PARK. SCHOOL OF FOREST.
Effect of Atmospheric Stability on Water Temperature Predictions for a Thermally Loaded Stream,
W76-11690 9-22 5B

PENNSYLVANIA STATE UNIV., UNIVERSITY PARK. SCHOOL OF FOREST RESOURCES.
A Multidisciplinary Approach to Solving Community Water Problems,
W76-04391 9-09 10D

Water-Saving Devices: The State of the Art,
W76-06317 9-13 3D

Effects of Management Practices on Water Quality and Quantity: Penn State Experimental Watersheds,
W76-09463 9-18 4D

Reclamation of A Burned Anthracite Refuse Bank with Municipal Sludge,
W76-10249 9-19 5E

Experiences at Penn State with Land Application,
W76-11234 9-21 5D

PENNSYLVANIA STATE UNIV., UNIVERSITY PARK. SCHOOL OF FORESTRY.
Timber Management Influences on Aquatic Ecosystems and Recommendations for Future Research,
W76-07151 9-14 5G

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Salinity Tolerance of the Tidepool Shrimp Palaemon Ritteri Holmes,
W76-03040 9-07 5C

PENNSYLVANIA UNIV., PHILADELPHIA.
Technology for the Conversion of Solar Energy to Fuel Gas.
W76-01218 9-03 5E

Phosphorus Loss by Stream Transport from a Rural Watershed: Quantities, Processes, and Sources,
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Continuous Printed Circuit Etching-Without Pollution,
W76-02299 9-05 5D

PENNYPACK WATERSHED ASSOCIATION, BRYN ATHYN, PA.
Experience with Land Application of Wastewater and State Regulations - Pennypack Watershed-Pennsylvania,
W76-11643 9-22 5D

PERM STATE UNIV. (USSR). NATURAL SCIENCES INST.
Zooplankton Formation in the Ocher Bay of the Votkinsk Reservoir, (In Russian),
W76-05274 9-11 2H

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Removal of Organic Matter by Floc Colloids onto Sludge Particles,
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PERMUTIT CO., LONDON (ENGLAND).
Reverse Osmosis in Industrial Water Treatment,
W76-05296 9-11 5D

PERMUTIT CO., PARAMUS, N.J. (ASSIGNEE).
Method of Operating Ion Exchange System,
W76-05983 9-12 5F

PERUVIAN PORT ORGANIZATION, CALLAO.
A Cost Analysis System for Ports,
W76-06631 9-13 6A

PERVOMAISK CHEMICAL PLANT (USSR).
Determination of Tetramethylthiuram Disulfide (TMTD) in Water and Air by Colimetry, (In Russian),
W76-09590 9-18 5A

PETERBOROUGH SEWAGE DIV. (ENGLAND).
Sludge Heat Treatment: Operation and Management,
W76-09708 9-18 5D

PETERBOROUGH UTILITIES COMMISSION, PETERBOROUGH, ONTARIO, CANADA, FILTRATION PLANT.
Automated Fluoridation Using a Selective Ion Electrode,
W76-11251 9-21 5F

PETRO-TEX CHEMICAL CORP., HOUSTON, TEX.
Treatment of Process Water,
W76-05119 9-11 5D

PETROCHEMICALS CO., INC., FORT WORTH, TEX.
PVC Pipe in Water Distribution: Reliability and Durability,
W76-03830 9-08 5F

PVC Pipe in Water Distribution: Reliability and Durability,
W76-05552 9-12 8G

PETROLITE CORP., ST. LOUIS, MO. (ASSIGNEE).
Methylene Phosphonates of Glycidyl Reacted Polyalkylene Polyamines and use in Scale and Chelation,
W76-05030 9-11 5F

Use of Polymeric Quaternary Ammonium Betaines as Water Clarifiers,
W76-05544 9-12 5F

PETROLITE CORP., TRETOLITE DIV. ST. LOUIS, MO.
Bactericides Used in Drilling and Completion Operations,
W76-00409 9-01 5C

PHILADELPHIA DEPT. OF STREETS, PA.
Philadelphia's Solid Wastes Strategy Stresses Private Sector Participation,
W76-06199 9-13 5E

PHILADELPHIA WATER DEPT. PA.
Land and Sea Solids Management Alternatives in Philadelphia,
W76-07033 9-14 5E

PHILADELPHIA WATER DEPT., PA. NORTHEAST WATER POLLUTION CONTROL PLANT.
New Incineration Method Solves Grease Problem in Richmond, Pa.,
W76-08485 9-16 5E

PHILIPS GLOEILAMPENFABRIEKEN N.V., EINDHOVEN (NETHERLANDS).
A Coulometric Device for Measuring Total Oxygen Demand,
W76-05728 9-12 5A

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The Analysis of Surface Waters for Iron, Zinc, and Lead by Coprecipitation on Iron Hydroxide and X-Ray Fluorescence,
W76-04760 9-10 5A

Rapid Photochemical Decomposition of Organic Mercury Compounds in Natural Water,
W76-05715 9-12 5A

PHILLIPS PETROLEUM CO., BARTLESVILLE, OKLA.
Effect of Wastewater Composition and Cell Residence Time on Phosphorus Removal in Activated Sludge,
W76-10239 9-19 5D

PHILLIPS PETROLEUM CO., BARTLESVILLE, OKLA. (ASSIGNEE).
Coaslescence Filter For Oil-Water Dispersions,
W76-12408 9-23 5G

PHYLAXIA VACCINE AND FEEDSTUFF-PRODUCING ENTERPRISE, BUDAPEST (HUNGARY).
The Waste-Water and Sludge Re-Use Project by Gamma Irradiation at Kecskemet, Hungary, Some Approaches and Investigations,
W76-09544 9-18 5D

PHYSICAL DYNAMICS, INC., BERKELEY, CALIF.
Interaction of Small-Amplitude Surface Gravity Waves with Surface Currents,
W76-03737 9-08 2L

PHYSICAL RESEARCH LAB., AHMEDABAD (INDIA).
An Improved Method of Silicon-32 Measurement of Groundwaters,
W76-02455 9-05 4B

PICKARD, LOWE AND ASSOCIATES, INC., WASHINGTON, D. C.
Mathematical Transport Model for Salt Distribution from a Saltwater Natural-Draft Cooling Tower,
W76-04831 9-10 5B

PIERCE COUNTY HEALTH DEPT., TACOMA, WASH.
Hepatitis Attributed to Polluted Stream,
W76-09220 9-17 5C

PIHL (E.) AND SONS A/S, COPENHAGEN, (DENMARK).
Extension of the Torshavn Breakwaters,
W76-08071 9-15 8A

PIRNIE (MALCOLM), INC., PARAMUS, N.J.
Anaerobic Digestion of Sludge, Part I,
W76-03827 9-08 5D

Anaerobic Digestion of Sludge, Part II,
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PITEAU GADSBY MACLEOD LTD. NORTH VANCOUVER (BRITISH COLUMBIA).
The Depth VS. Depth Plot: an Aid to Selecting Piezometer Installation Depths in Boreholes,
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Process for Recovering Tin Salts from the Waste Rinse Water of a Halogen Tin Plating Process,
W76-05025 9-11 5D

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Precipitation: Its Acidic Nature,
W76-00900 9-02 2K

PITTSBURGH UNIV., PA.
Pittsburgh Rainwater Analysis by Pixe,
W76-07555 9-15 5A

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Differences in Chemical Composition Between Two Species of Daphnia and Some Freshwater Algae Cultured in the Laboratory,
W76-06713 9-13 5C

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Salt and Nonelectrolyte Interactions in Water,
W76-05245 9-11 2K

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A Rational Approach to Decision Making in the Regionalization of Wastewater Treatment Systems,
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Simulation of Hydraulic Processes in Open Channels,
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The Effect of Water Treatment and Distribution on Trace Element Concentrations,
W76-00120 9-01 5F

PLANT PROTECTION RESEARCH INST., PRETORIA (SOUTH AFRICA).
Total Population Density of Crustacea and Aquatic Insecta as an Indicator of Fenthion Population of River Water,
W76-03779 9-08 5G

PLASTIC MOLD CO., ROCKY HILL, CONN.
New Diatomite Filter Solves Cooling and Wash Water Problems for Plastic Molding Operation,
W76-04210 9-09 5D

PLATTE TECHNICAL COMMUNITY COLL., COLUMBUS, NEBR.
The Microenvironment of Climacium Americanum,
W76-06045 9-12 2G

PLUMMER AND MCDANNALD CO., GALENA, OHIO.
Corrosion,
W76-10095 9-19 8G

Encrustation,
W76-11912 9-22 8G

Down-the-Hole Insurance,
W76-13032 9-24 8G

PNEUMATIQUES, CAOUTCHOUC MANUFACTURE ET PLASTIQUES KLEBER-COLOMBES (FRANCE). (ASSIGNEE).
Floating Anti-Pollution Barrier,
W76-03513 9-08 5G

Inflatable Water-Retaining Barrier,
W76-06462 9-13 8A

POERTNER (HERBERT G.), BOLINGBROOK, ILL.
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W76-09752 9-18 4C

POLISH ACADEMY OF SCIENCE, KRAKOW. ZAKLAD OCHRONY PRZYRODY.
Seston and Periphyton of the River Vistula on the Sector From Nowy Bierun to the Water Stage at Laczany and on the Laczany: Skawina Canal (In Polish),
W76-02513 9-06 5B

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Estimation of Cooling Power in a Deciduous Forest Stand,
W76-03064 9-07 2I

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Gravity Waves Propagated over Permeable Bottom,
W76-11853 9-22 8B

Interaction of Water Waves with Cylinder Barrier,
W76-12441 9-23 8B

Coastal Dispersion of Pollutants,
W76-12843 9-24 5B

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The Effect of Controlled Eutrophication on Solar Radiation Penetrating into Ponds, (In Polish),
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Algae from Montane Streams on the Island of Mahe, in the Seychelles,
W76-06205 9-13 5C

Algae in the Gebel Marra Mts in West Sudan,
W76-06206 9-13 5C

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The Roach (Rutilus Rutilus L.) from the Dam Reservoir in Przeczyce, Poland,
W76-00556 9-02 2I

Algae of Dam Reservoirs in the Sola Cascade and Neighbouring Sectors of the River,
W76-01150 9-03 5C

Some Carpathian Reservoirs and Their Production Relations,
W76-01175 9-03 5C

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W76-12909 9-24 5B

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W76-01174 9-03 2H

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Experimentally Increased Fish Stock in the Pond Type Lake Warniak. IX. Numbers and Biomass of Bottom Fauna,
W76-03539 9-08 2H

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Biology and Bioenergetics of Grass Carp (Ctenopharyngodon Idella Val.),
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W76-00766 9-02 5B

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Microbiological Transformation of Carbon Nitrogen, Sulfur, Iron, Phosphorus and Calcium Compounds in Lake Reservoirs, (In Polish),
W76-12494 9-23 5C

POLITECNICO DI MILANO (ITALY). ISTITUTO DI ELETTROTECNICA ED ELETTRONICA.
Reservoir Management Via Reliability Programming,
W76-05508 9-12 4A

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W76-09532 9-18 5D

POLITEKHNICHESKII INSTITUT, LENINGRAD (USSR).C
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Effluent Polishing by Filtration Through Activated Alumina, Volume I.
W76-10491 9-19 5D

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The Role and Function of Verdure in Protecting the Human Environment.
W76-06240 9-13 4C

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Concentration of Cesium-137 in Aquatic Organisms, Water and Bottom Deposits of Water Bodies with a Different Mineral Compositions of the Water, (In Russian),
W76-09410 9-18 5C

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An Electron Accelerator with Electrons of Low-Accelerating Voltage for Irradiating Sewage Sludge and Waste Water,
W76-09539 9-18 5D

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Disinfection of Sludge and Waste-Water by Irradiation with Electrons of Low Accelerating Voltage,
W76-09521 9-18 5D

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Digestion of Aqueous Wastes with Oxygen Pressure-Recycling Oxidation Sewage Treatment,
W76-12663 9-23 5D

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Removal of Toxic Trace Elements by Foam Separation: A Study of the Removal of Cadmium and Mercury Ions by the Foam Separation Technique Using Selective Complexing Surfactant,
W76-04669 9-10 5D

PONDEROSA PAPER PRODUCTS, INC., FLAGSTAFF, ARIZ.
Water Reuse at Ponderosa Paper Products, Inc., Flagstaff, Arizona,
W76-02474 9-05 5D

POOL (CHARLES) AND ASSOCIATES, INC., KETCHIKAN, ALASKA.
Comparing Inflow and Infiltration,
W76-10683 9-20 5D

PORT ELIZABETH UNIV. (SOUTH AFRICA). DEPT. OF ZOOLOGY.
Notes on the Biology of Some Estuarine Bivalves,
W76-06134 9-12 2L

PORTLAND GENERAL ELECTRIC CO., OREG. DEPT. OF ENVIRONMENTAL SERVICES.
Adaptation of Hydro Fish Facilities to Steam-Electric Stations,
W76-08654 9-16 8I

PORTSMOUTH POLYTECHNIC (ENGLAND). DEPT OF BIOLOGICAL SCIENCES.
The Eradication of the Seaweed Sargassum Muticum from Britain,
W76-09989 9-18 5G

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The Recovery of Fe, Mn and Al from a Mine Water Effluent,
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Energy Content of the Benthos and Epifauna in the Pongola River, Natal, (In Afrikaans),
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W76-08291 9-16 3E

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A Critical Comparison of the Biological Assumptions of Hudson River Striped Bass Models and Field Survey Data,
W76-03771 9-08 5C

PPG INDUSTRIES, INC., NEW MARTINSVILLE, W. VA. NATRIUM TECHNICAL CENTER.
Porous Cathode Cell for Metals Removal from Aqueous Solutions,
W76-03533 9-08 5D

PPG INDUSTRIES, INC., PITTSBURGH, PA. (ASSIGNEE).
Method And Apparatus For Disposal Of Liquid Waste,
W76-02781 9-06 5E

PRATT AND WHITNEY AIRCRAFT, EAST HARTFORD, CONN.
Improvements in Phenoldisulfonic Acid Method for Determination of Nox,
W76-02557 9-06 5A

PREIN AND NEWHOF, CONSULTING ENGINEERS, GRAND RAPIDS, MICH.
Combined Treatment of Leather Tanning and Municipal Wastes at Grand Haven, Michigan,
W76-08294 9-16 5D

PRINCE EDWARD ISLAND, CHARLOTTETOWN. DEPT. OF SOCIOLOGY AND ANTHROPOLOGY.
Local Attitudes and Water Resources Development: A Canadian Case Study,
W76-11132 9-21 6B

PRINCE GEORGE PULP AND PAPER LTD. (BRITISH COLUMBIA).
Filter Media Comparison at Prince George Pulp and Paper (Limited),
W76-09286 9-17 5D

PRINCETON APPLIED RESEARCH CORP., PRINCETON, N.J.
Application of Pulse Polarography to Pollutant Analysis,
W76-03529 9-08 5A

PRINCETON UNIV., N. J. DEPT. OF CIVIL AND GEOLOGICAL ENGINEERING.
The Bearing Capacity of Floating Ice Plates Subjected to Static or Quasi-Static Loads, A Critical Survey,
W76-06192 9-13 8G

PRINCETON UNIV., N. J. DEPT. OF CIVIL ENGINEERING.
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W76-12199 9-23 2F

An Analysis of the Numerical Solution of the Transport Equation,
W76-12434 9-23 5B

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Transient Simulation of Saltwater Intrusion in Southeastern Florida,
W76-11689 9-22 2L

PRINCETON UNIV., N. J. DEPT. OF GEOLOGICAL AND GEOPHYSICAL SCIENCES.
Numerical Simulation of Salt-Water Intrusion in Coastal Aquifers, Part 1,
W76-05010 9-11 5B

Numerical Simulation of Salt-Water Intrusion in Coastal Aquifers, Part 2,
W76-05011 9-11 5B

PRINCETON UNIV., N.J. DEPT. OF GEOLOGY.
Ocean Boundaries and Petroleum Resources,
W76-10596 9-20 6E

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Application of the Algal Assay Procedure in Biostimulation and Toxicity Testing,
W76-06697 9-13 5C

PROCTER AND GAMBLE CO., CINCINNATI, OHIO. ENVIRONMENTAL WATER QUALITY RESEARCH DEPT.
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W76-01021 9-03 8I

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An Investigation into the Pretreatment and Effect of an Industrial Waste Water Derived from the Manufacture of Azo Dyes upon the Activated-Sludge Process,
W76-07516 9-15 5D

PUBLIC HEALTH SERVICE, GRANT, N. MEX. DIV. OF INDIAN HEALTH.
Sand Filter and Waste Stabilization Pond Test Shows Possibility for Treatment of Individual Wastewater Disposal,
W76-01738 9-04 5D

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Evaluation of Water Laboratories, Recommended by the United States Public Health Service.
W76-05041 9-11 5G

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Water Pollution Control Act of 1972, Economic Impacts, Foreign Trade,
W76-11802 9-22 5G

PUBLIC SERVICE ELECTRIC AND GAS CO., NEWARK, N.J.
Environmental Considerations of Offshore Generating Stations,
W76-12225 9-23 5G

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W76-09222 9-17 5A

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W76-07642 9-15 5D

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W76-03487 9-07 5C

Organically Complexed Copper, Zinc, and Chelating Agents in Rivers of Western Puerto Rico,
W76-10292 9-19 5B

Tortuguero Bay Environmental Studies,
W76-12783 9-24 6G

PUERTO RICO NUCLEAR CENTER, RIO PIEDRAS. RADIOECOLOGY DIV.
Thermal Studies on Tropical Marine Ecosystems in Puerto Rico,
W76-08872 9-17 5C

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Soil Compaction due to Harvest Traffic in Sugarcane Fields on a Lajas Valley Farm of Puerto Rico,
W76-04089 9-09 3F

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Rainfall Generation: A Nonstationary Time-Varying Multidimensional Model,
W76-12208 9-23 2B

PUERTO RICO UNIV., MAYAGUEZ. INST. FOR POLICY STUDIES AND LAW.
Lawyers and Ecomanagement,
W76-10753 9-20 6E

PUERTO RICO UNIV., MAYAQUEZ. DEPT. OF CIVIL ENGINEERING.
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W76-09572 9-18 2B

PUERTO RICO UNIV., RIO PIEDRAS. DEPT. OF BIOLOGY.
A Computer Simulation of Competition Among Five Sympatric Congeneric Species of Xanthid Crabs,
W76-10124 9-19 2L

PUGET SOUND NAVAL SHIPYARD, BREMERTON, WASH.
Thermal Analysis of Frozen Embankment Islands,
W76-12200 9-23 2L

PULP AND PAPER RESEARCH INST. OF CANADA, POINTE CLAIRE (QUEBEC).
The BOD's and Toxicity of Effluents from Sulphite Pulping for Newsprint,
W76-04245 9-09 5C

Colour Measurement of Pulp Mill Effluents,
W76-09296 9-17 5A

Detoxification and Decolorization of Kraft Pulp Mill Effluents using Activated Carbon,
W76-09298 9-17 5D

PUNJAB AGRICULTURAL UNIV., LUDHIANA (INDIA). COLL OF AGRICULTURAL ENGINEERING.
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W76-00827 9-02 3C

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A Simplified Approach for the Analysis of Unsteady Flow to a Cavity Well,
W76-07561 9-15 2F

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Growth Response of Crops to Depth and Salinity of Ground Water, and Soil Submergence. I. Wheat (Triticum aestivum L.),
W76-00156 9-01 3C

Preliminary Observation on Seasonal Changes in the Salt Content of an Irrigated Soil Under Wheat-Maize Rotation,
W76-07954 9-15 3C

PUNJAB AGRICULTURAL UNIV., LUDHIANA (INDIA). DEPT. OF ZOOLOGY-ENTOMOLOGY.
Toxicity of Insecticides (Commercial Formulations) to the Exotic Fish, Common Carp Cyprinus Carpio Communis Linnaeus,
W76-07699 9-15 5C

PURDUE UNIV., LAFAYETTE, IND.
Evaluating Irregular Slopes for Soil Loss Prediction,
W76-01567 9-04 2J

Hardness Removal by Ion Exchange With A Recoverable Organic Regenerant,
W76-02561 9-06 5D

The Dry Deep Pit System,
W76-05172 9-11 5D

Turbulent Bed Cooling Tower,
W76-12847 9-24 5D

PURDUE UNIV., LAFAYETTE, IND. AGRICULTURAL EXPERIMENT STATION.
Water Flux and Electrical Potentials in Water-Saturated Bentonite,
W76-05269 9-11 2G

Evaluation of Methods for Preserving the Levels of Soluble Inorganic Phosphorus and Nitrogen in Unfiltered Water Samples,
W76-08157 9-16 5A

Factors Influencing Nitrate Transformations in Sediments,
W76-11700 9-22 5C

PURDUE UNIV., LAFAYETTE, IND. COOPERATION EXTENSION SERVICE.
Educational and Informational Needs for Achieving Public Acceptance,
W76-11640 9-22 5G

PURDUE UNIV., LAFAYETTE, IND. DEPT. OF AGRICULTURAL ECONOMICS.
Benefits and Cost of Drainage Systems,
W76-01798 9-04 6B

Equity Considerations in Controlling Nonpoint Pollution from Agricultural Sources,
W76-08094 9-15 5G

The Economic Impact of Controlling Nonpoint Pollution in Hardwood Forestland,
W76-11697 9-22 5G

PURDUE UNIV., LAFAYETTE, IND. DEPT. OF AGRICULTURAL ENGINEERING.
A Characterization of the Effluent from Commercial Catfish Ponds,
W76-01041 9-03 5A

Biological Treatment of Feedlot Runoff Following Settling,
W76-01042 9-03 5D

The NPDES Discharge Permit Program for Agricultural Point Sources,
W76-07165 9-14 5G

A Waste Management System for a 150-Cow Dairy--A 10-Year Case Study,
W76-07174 9-14 5D

A Total Recycle Unit System for Dairy Manure Management,
W76-07177 9-14 5D

Use and Misuse of the Universal Soil Loss Equation,
W76-08120 9-16 2J

Physical-Chemical Composition of Eroded Soil,
W76-13010 9-24 2J

PURDUE UNIV., LAFAYETTE, IND. DEPT. OF AGRONOMY.
Determination of Total Nitrogen in Natural Waters,
W76-08355 9-16 2K

Effect of Wet-Air Oxidation on the Chemical Composition of Sewage Sludges,
W76-12462 9-23 5D

PURDUE UNIV., LAFAYETTE, IND. DEPT. OF BIONUCLEONICS.
Uptake and Distribution of Trace Metals in Fish,
W76-04010 9-09 5C

PURDUE UNIV., LAFAYETTE, IND. DEPT. OF BOTANY AND PLANT PATHOLOGY.
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W76-05181 9-11 5C

PURDUE UNIV., LAFAYETTE, IND. DEPT. OF CHEMISTRY.
Contents of Eleven Trace Elements in Ureilite Achondrites,
W76-09041 9-17 5A

PURDUE UNIV., LAFAYETTE, IND. DEPT. OF ENVIRONMENTAL ENGINEERING.
Detergent Phosphate Ban Yields Little Phosphorus Reduction, Part I,
W76-03235 9-07 5A

Detergent Phosphate Ban Yields Little Phosphorus Reduction, Part I,
W76-05637 9-12 5C

Detergent Phosphate Ban Yields Little Phosphorus Reduction, Part II,
W76-06345 9-13 5G

Detergent Phosphate Ban Yields Little Phosphorus Reduction, Part III,
W76-06346 9-13 5G

PURDUE UNIV., LAFAYETTE, IND. DEPT. OF FORESTRY.
A System for Evaluating Scenic Rivers,
W76-08097 9-15 6B

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Hydrogeology of Glacial Deposits in Tippecanoe County, Indiana, Systematic Development of Methodologies in Planning Water Resources in Medium Size Communities,
W76-01521 9-04 2F

PURDUE UNIV., LAFAYETTE, IND. DEPT. OF SOCIOLOGY AND ANTHROPOLOGY.
Systematic Development of Methodologies in Planning Urban Water Resources for Medium Size Communities: Population Characteristics and Residential Water Use,
W76-11177 9-21 6B

PURDUE UNIV., LAFAYETTE, IND. JOINT HIGHWAY RESEARCH PROJECT.
Pore Size Distribution of Compacted Soils After Critical Region Drying,
W76-08416 9-16 2G

PURDUE UNIV., LAFAYETTE, IND. LAB. FOR APPLICATIONS OF REMOTE SENSING.
Techniques for Computer-Aided Analysis of ERTS-1 Data, Useful in Geologic, Forest and Water Resource Surveys,
W76-02053 9-05 7C

A Study of the Utilization of ERTS-1 Data from the Wabash River Basin,
W76-12183 9-23 7B

PURDUE UNIV., LAFAYETTE, IND. SCHOOL OF CIVIL ENGINEERING.
Soil Stabilization for Erosion Control,
W76-06639 9-13 4D

Stabilization of Clay Soils Against Erosion Loss,
W76-06640 9-13 4D

Interactions Between Land Use and Urban Water Resources Planning,
W76-11130 9-21 4A

Wabash River Systems Model - Terminal Report Phase I,
W76-12220 9-23 4A

PURDUE UNIV., LAFAYETTE, IND. SCHOOL OF ELECTRICAL ENGINEERING.
Optimal Estimation of DO, BOD, and Stream Parameters Using a Dynamic Discrete Time Model,
W76-13167 9-24 5A

PURDUE UNIV., LAFAYETTE, IND. SCHOOL OF MECHANICAL ENGINEERING.
Laboratory Modeling of Thermal Structure in Stagnant Water,
W76-00199 9-01 2H

PURDUE UNIV., LAFAYETTE, IND. SCHOOLS OF ENGINEERING.
Removal of Periodicities by Differencing and Monthly Mean Subtraction,
W76-02944 9-06 2A

PURDUE UNIV., LAFAYETTE, IND. WATER RESOURCES RESEARCH CENTER.
An Information Retrieval System for the Macroinvertebrate Fauna of Indiana Rivers and Lakes,
W76-01513 9-04 2I

Stochastic Models for Ground Water Levels,
W76-01799 9-04 4B

Analysis of the Effects of Urbanization on Runoff Characteristics by Nonlinear Rainfall-Runoff Models,
W76-04507 9-10 2A

Thermodynamic Properties of Bulk and Occluded Super-Cooled Water and Ionic Solutions,
W76-06155 9-13 1A

Lake Management Conference, May 12-14, 1975.
W76-06642 9-13 4A

Systematic Development of Methodologies in Planning Urban Water Resources for Medium Size Communities. Phase I. Final Report,
W76-11175 9-21 6B

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W76-12994 9-24 7A

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Systematic Development of Methodologies in Planning Urban Water Resources for Medium

Size Communities: Regional Aquifer Evaluation Studies with Stochastic Inputs,
W76-11176 9-21 6B

PURICONS, INC., BERWYN, PA.
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W76-05284 9-11 5D

PUSAN FISHERIES COLL. (REPUBLIC OF KOREA).
An Observation of Water Quality and Red Water in Still Water Fish Ponds, (In Korean),
W76-09799 9-18 5C

The Concentrations of Mercury, Cadmium, Lead and Copper in Fish and Shellfish of Korea, (In Korean),
W76-11729 9-22 5A

Concentrations of Mercury, Cadmium, Lead and Copper in the Surrounding Seawater and in Seaweeds, Undaria Pinnatifida and Sargassum Fulvellum, from Suyeong Bay in Pusan, (In Korean),
W76-13190 9-24 5A

QUANTA CONSULTING ENGINEERS, TEHRAN, (IRAN).
Particles, Polymers, and Performance in Filtration,
W76-00229 9-01 5D

QUEBEC CITY WATER BOARD (QUEBEC). WATER DIV.
Water Treatment Plant, City of Quebec, Canada,
W76-00205 9-01 5F

QUEBEC UNIV., MONTREAL. DEPT. OF PHYSICS.
On Radar-Raingage Comparison,
W76-05694 9-12 2B

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W76-08126 9-16 2L

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Dynamic Behavior of Box-Girder Jetties,
W76-07208 9-14 8A

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W76-01193 9-03 2L

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Some Relations Between Forest Litter and Growth of Sitka Spruce on Poorly Drained Soils,
W76-05687 9-12 2I

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On the Use of Litter Bag Method for Studying Degradation in Aquatic Habitats,
W76-08041 9-15 7B

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W76-12177 9-23 5C

QUEEN'S UNIV., KINGSTON (ONTARIO).
QUURM--A Realistic Urban Runoff Model,
W76-04693 9-10 2A

QUURM - A Realistic Urban Runoff Model,
W76-05577 9-12 2A

Cost-Benefit Rules in General Equilibrium,
W76-06625 9-13 6B

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Time Growth of Tidal Dunes in a Physical Model,
W76-10424 9-19 2L

Coastal Mobile Bed Model - Does it Work,
W76-10428 9-19 2L

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W76-08529 9-16 5B

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W76-00328 9-01 5C

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W76-03659 9-08 5C

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W76-09155 9-17 5F

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W76-07771 9-15 4A

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W76-01425 9-03 2A

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Guidelines for the Selection of Turbine Pump Materials for use in Groundwaters,
W76-05406 9-11 8G

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W76-01859 9-04 4C

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W76-00788 9-02 5D

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W76-07214 9-14 5B

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W76-00765 9-02 5D

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W76-09537 9-18 5D

RADIOMETRIC TECHNOLOGY, INC., WAKEFIELD, MASS.
Applications of Microwaves to Remote Sensing of Terrain,
W76-04314 9-09 7B

RAFFINERIE TIRLEMONTOISE S.A., TIENEN (BELGIUM). RESEARCH DEPT.
Waste Water Treatment in the Beet-Sugar Industry,
W76-03092 9-07 5D

RAGAN (JAMES) ASSOCIATES, PACIFIC PALISADES, CALIF.
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W76-13041 9-24 6E

Public Participation in Water Resources Planning: An Evaluation of the Programs of 15 Corps of Engineers Districts,
W76-13042 9-24 6E

RAIN BIRD SPRINKLER MFG. CORP., GLENDORA, CALIF. (ASSIGNEE).
Pressure and Flow Regulation Device,
W76-09049 9-17 3F

Trickle Irrigator,
W76-10970 9-20 3F

RAIN BIRD SPRINKLER MFG. CORP., GLENORA, CALIF. (ASSIGNEE).
Construction for Reducing Vortex Swirl in Rotary Water Sprinklers,
W76-04605 9-10 3F

RALPH STONE AND CO., INC., LOS ANGELES, CALIF.
Evaluation of Solid Waste Baling and Balefills. Volume I,
W76-12381 9-23 5A

RAND CORP., SANTA MONICA, CALIF.
Applicability of ERTS to Antaractic Iceberg Resources,
W76-02048 9-05 7B

A Numerical Experiment on the Effects of Regional Atmospheric Pollution on Global Climate,
W76-02420 9-05 5A

Energy Demand and Its Effect on the Environment,
W76-02621 9-06 6D

Far-Infrared and Submillimeter Wave Attenuation by Clouds and Rain,
W76-05164 9-11 2B

A Three-Dimensional Model for Estuaries and Coastal Seas: Volume III, the Interim Program,
W76-07016 9-14 2L

Diagnostic Model Study of Mixed-Layer Depths in the Summer North Pacific,
W76-09719 9-18 2L

Modeling of Three-Dimensional Flows in Estuaries,
W76-09977 9-18 2L

Cost-Benefit Analysis, Property Right Specification and 'Distribution',
W76-11162 9-21 6B

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W76-09722 9-18 2C

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W76-09311 9-17 8A

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W76-09904 9-18 8A

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W76-00507 9-02 5A

Automatic Organic Monitoring System for Storm and Combined Sewers,
W76-06651 9-13 5A

RAYTHEON CO., WAYLAND, MASS. ADVANCED DEVELOPMENT LAB.
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W76-04301 9-09 2L

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Environmental Site Assessment for a Massachusetts Bay Deepwater Oil Terminal,
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Land Application Research at Robert S. Kerr Environmental Research Laboratory,
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Measurement of Metal Toxicity by Biochemical Oxygen Demand,
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Most Probable Number Versus Membrane Filter on Chlorinated Effluents,
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Multiattribute Water Resources Decision Making,
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W76-10947 9-20 2L

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W76-12707 9-24 2L

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Chemistry of Halogens in Seawater,
W76-12884 9-24 5A

ROSTOCK UNIV. (EAST GERMANY). DEPT. OF BIOLOGY.
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W76-09084 9-17 2L

Abundance and Biomass of Zooplankton during the Synoptic Investigation of the Shallow Inlets to the South of the Zingst Peninsula (South Baltic) During May/June, 1972. (In German),
W76-10817 9-20 5C

Determination of the Biomass and Detritus Content from Natural Phytoplankton Scoop Samples, (In German),
W76-10864 9-20 5A

Benthogenic Phytodetritus in Eutrophic Coastal Waters as an Energy Source for Secondary Producers, (In German),
W76-10866 9-20 5C

Contribution on the Knowledge of the Organic in the Coastal Waters of the GDR: V. the Variability of the Chemical Oxygen Consumption at Selected Stations of the Waters in the Shallow Inlets to the South of the Zingst Peninsula During the Synoptic Investigation in 1972, (In German),
W76-12916 9-24 5B

ROSTOCK UNIV. (EAST GERMANY). DEPT. OF MARINE AND FISHERY BIOLOGY.
Remarks on Indicator Organisms (Meiofauna) in the Coastal Waters of the GDR,
W76-01946 9-04 5B

ROSTOV-NA-DONU GOSUDARSTVENNI MEDITISINSKII INSTITUT (USSR)
Harmlessness of Grain Grown on Sewage Farms, (In Russian),
W76-12645 9-23 5C

ROSTOV-ON-DON STATE UNIV. (USSR).
Bottom Deposits of the Kuban Deltaic Limans, (In Russian),
W76-09935 9-18 2L

Seasonal Dynamics of Suspended Matter in the Azov Sea, (In Russian),
W76-10126 9-19 2J

Contribution to Epizootology of Schistocephalus Pungitii (Ligulidae) in the Manych-Gudilo Lake, (In Russian),
W76-12273 9-23 5C

ROSTOV-ON-DON STATE UNIV. (USSR). RESEARCH INST. OF BIOLOGY.
Effect of Irrigation on Some Physicochemical Properties of Ciscaucasian Chernozems of the Second Terrace of the Don River, (In Russian),
W76-03022 9-07 3C

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The Effect of Methods of Operation of Aeration Basins on the Development and Population Density of Culex Pipiens L. in the South of the Russian SFSR, (In Russian),
W76-12419 9-23 5G

ROUEN UNIV. (FRANCE). LAB. OF MACROMOLECULAR CHEMISTRY.
Water Transport Across Cation-Exchange Membrane. I. Experimental Technique. Influence of the Concentration and Temperature on the Water Transport Number,
W76-10620 9-20 3A

ROWETT RESEARCH INST., BUCKSBURN (SCOTLAND).
The Anaerobic Digestion of Waste From an Intensive Pig Unit,
W76-01379 9-03 5D

Practical Aspects of Anaerobic Digestion,
W76-12648 9-23 5D

ROYAL DANISH SCHOOL OF PHARMACY, COPENHAGEN.
Do Heavy Metals Prevent the Agricultural Use of Municipal Sludge,
W76-03409 9-07 5E

Investigation of Phosphorus Removal from Water,
W76-04183 9-09 5D

An Ecological Model for Heavy Metal Contamination of Crops and Ground Water,
W76-11885 9-22 5B

A Eutrophication Model for a Lake,
W76-12515 9-23 5C

ROYAL INST. OF TECH., STOCKHOLM (SWEDEN). DEPT. OF HYDRAULICS.
Sediment Flushing After Dredging in Tidal Bays,
W76-12974 9-24 8C

ROYAL MILITARY COLL., DUNTROON (AUSTRALIA). DEPT. OF GEOGRAPHY.
Bacterial Pollution in Lake Burley Griffin,
W76-05407 9-11 5C

ROYAL SOCIETY FOR THE PROTECTION OF BIRDS, SANDY (ENGLAND).
Seabird Mortality in the North Irish Sea and Firth of Clyde Early in 1974,
W76-11727 9-22 5C

ROYAL UNIV. OF MALTA, MSIDA.
Ocean Space for Mankind: International Law of the Sea,
W76-00922 9-02 6G

ROYAL VETERINARY AND AGRICULTURAL COLL., COPENHAGEN (DENMARK). DEPT. OF VETERINARY VIROLOGY AND IMMUNOLOGY.
Public Health Aspects of Waste-Water Treatment,
W76-09516 9-18 5D

ROYAL VETERINARY AND AGRICULTURE COLL., COPENHAGEN (DENMARK).
A Model for Estimating Actual Evapotranspiration from Potential Evapotranspiration,
W76-08132 9-16 2D

ROYAL VETERINARY AND AGRICULTURE COLL., COPENHAGEN (DENMARK). HYDROTECHNICAL LAB.
Water and Phosphate Transport to Plant Roots,
W76-06002 9-12 2I

Resistance to Water Flow in Soil and Plants, Plant Water Status Stomatal Resistance and Transpiration of Italian Ryegrass, as Influenced by Transpiration Demand and Soil Water Depletion,
W76-07958 9-15 2I

Effect of Solar Energy and Water on Plant Productivity (In Bulgarian),
W76-08576 9-16 2I

RRC INTERNATIONAL, INC., LATHAM, N.Y. (ASSIGNEE).
Apparatus and Method for Protecting a Shoreline Against Contamination from an Oil Spill,
W76-13144 9-24 5G

RUHRCHEMIE AKTIENGESELLSCHAFT, OBERHAUSEN (WEST GERMANY). (ASSIGNEE).
Purification of Waste Water Containing Organic and Inorganic Impurities,
W76-10966 9-20 5D

RUSSELL AND AXON, ST. LOUIS, MO.; AND ARMY ENGINEER DISTRICT, ST. LOUIS, MO.
Flood Plain Information: St. Charles County, Missouri, Part 2, Peruque Creek.
W76-08819 9-17 4A

RUTGER-THE STATE UNIV., NEW BRUNSWICK, N.J. WATER RESOURCES RESEARCH INST.
Reorientation of Urban Water Resources Research, Executive Summary,
W76-06554 9-13 6B

RUTGERS--THE STATE UNIV., NEW BRUNSWICK, N.J.
Assessing Unrecorded Organic Pollution from Agricultural, Urban, and Wooded Lands,
W76-01264 9-03 5B

The Molecular Weight Distribution of Soluble Organics in Sewage and Sewage Effluents Using Gel Filtration,
W76-05101 9-11 5D

Coastal Erosion Hazard in the United States: A Research Assessment,
W76-07788 9-15 2L

RUTGERS - THE STATE UNIV., NEW BRUNSWICK, N. J. COLL. OF AGRICULTURE AND ENVIRONMENT SCIENCE.
Report from New Jersey,
W76-04723 9-10 5G

RUTGERS - THE STATE UNIV., NEW BRUNSWICK, N. J. COLL. OF ENGINEERING.
Treatment of Synthetic Urinous Wastewater Using Combined Reverse Osmosis, Immobilized Urease, and Ion Exchange Systems,
W76-10254 9-19 5D

RUTGERS - THE STATE UNIV., NEW BRUNSWICK, N.J. DEPT. OF CHEMICAL AND BIOCHEMICAL ENGINEERING.
Identification in Nonlinear, Distributed Parameter Water Quality Models,
W76-04940 9-10 5B

RUTGERS - THE STATE UNIV., NEW BRUNSWICK, N. J. DEPT. OF ECONOMICS.
Methods of Estimating Residential Land Use for Water Resources Management,
W76-08924 9-17 4C

RUTGERS - THE STATE UNIV., NEW BRUNSWICK, N. J. DEPT. OF ENTOMOLOGY AND ECONOMIC ZOOLOGY.
Interactive Effects of Predation Pressure and Insecticide (Temefos) Toxicity on Populations of the Marsh Fiddler Crab Uca Pugnax,
W76-09114 9-17 5C

RUTGERS - THE STATE UNIV., NEW BRUNSWICK, N.J. DEPT. OF ENVIRONMENTAL SCIENCE.
Economic Considerations for Planning Sewage Sludge Disposal Systems,
W76-05083 9-11 5E

Concentrations of Nitrifying Bacteria in Sewages, Effluents, and a Receiving Stream and Resistance of These Organisms to Chlorination,
W76-12654 9-23 5D

RUTGERS - THE STATE UNIV., NEW BRUNSWICK, N. J. DEPT. OF ENVIRONMENTAL SCIENCES.
A New Convenient Method for Determining Arsenic(+3) in Natural Waters,
W76-08027 9-15 5A

RUTGERS-THE STATE UNIV., NEW BRUNSWICK, N. J. DEPT. OF HORTICULTURE AND FORESTRY.
Airborne Sea Salt: Techniques for Experimentation and Effects on Vegetation,
W76-04818 9-10 5A

RUTGERS - THE STATE UNIV., NEW BRUNSWICK, N. J. DEPT. OF SOILS AND CROPS.
Two-Step Phosphate Removal from Solution Using Aluminum Salts,
W76-09182 9-17 5D

Relationship Between Water Quality and Plant Growth in Ponds,
W76-11170 9-21 5C

RUTGERS-THE STATE UNIV., NEW BRUNSWICK, N. J. DEPT. OF ZOOLOGY.
Tube-Worm-Sediment Relationships in Populations of Pectinaria Gouldii (Polychaeta: Pectinariidae) from Barnegat Bay, New Jersey,
W76-10061 9-19 2L

RUTGERS - THE STATE UNIV., NEW BRUNSWICK, N. J. DEPT. OF ZOOLOGY; AND RUTGERS - THE STATE UNIV., NEW BRUNSWICK, N. J. DEPT. OF PHYSIOLOGY.
Optical Malformations Induced by Insecticides in Embryos of the Atlantic Silversides, Menidia Menidia,
W76-08445 9-16 5C

RUTGERS-THE STATE UNIV., NEW BRUNSWICK, N.J. DIV. OF URBAN STUDIES.
Water Quality Monitoring and River Basin Planning: A Critique and Some Recommendations,
W76-02378 9-05 5A

RUTGERS - THE STATE UNIV., NEW BRUNSWICK, N. J. WAKSMAN INST. OF MICROBIOLOGY.
Actinomycetes of Sewage-Treatment Plants,
W76-02760 9-06 5D

Actinomycetes of Sewage-Treatment Plants,
W76-11927 9-22 5D

RUTGERS - THE STATE UNIV., NEW BRUNSWICK, N.J. WATER RESOURCES RESEARCH INST.
The Delaware Estuary System, Environmental Impacts and Socio-Economic Effects: Environmental Quality and Its Evaluation,
W76-02626 9-06 5G

Principles of Determing a Social Discount Rate,
W76-03263 9-07 6C

Oxidation of Lake and Impoundment Hypolimnia,
W76-04016 9-09 5C

Reorientation of Urban Water Resources Research, Final Report,
W76-06553 9-13 6B

The Plight of the Urban Reservoir: A Case Study,
W76-07452 9-15 5C

RUTGERS-THE STATE UNIV., NEWARK, N.J. DEPT. OF ZOOLOGY AND PHYSIOLOGY.
Preliminary Observations on the Mode of Accumulation of No. 2 Fuel Oil by the Soft Shell Clam, MYA Arenaria,
W76-00136 9-01 5C

S. V. REGIONAL COLL. OF ENGINEERING AND TECHNOLOGY, SURAT (INDIA).
Salt Water Intrusion into Porous Media,
W76-00614 9-02 2L

SACHS-SYSTEMTECHNIK G. M. B. H., SCHWEINFURT (WEST GERMANY), (ASSIGNEE).
Method and Apparatus for the Disinfection of Liquids by Anodic Oxidation and Preceding Reduction,
W76-02251 9-05 5F

SAGAMI CHEMICAL RESEARCH CENTER, SAGAMIHARA (JAPAN).
A Study on Marine Trace Elements and CSK Standards, (In Japanese),
W76-08311 9-16 2L

SAGAMI CHEMICAL RESEARCH CENTER, TOKYO (JAPAN). (ASSIGNEE).
Thiuram Polysulfide Heavy Metal Remover,
W76-10466 9-19 5D

SAINT ANDREWS PRESBYTERIAN COLL., LAURINBURG, N. C. DIV. OF MATHEMATICS AND NATURAL SCIENCE.
Effects of Temperature and Salinity on Growth and Uptake of 65ZN and 137CS for Six Marine Algae,
W76-12238 9-23 5C

SAINT CLOUD STATE COLL., MINN. DEPT. OF BIOLOGY.
Biological Changes in the South St. Paul Sewage Treatment Plant Before and After Treatment with FeCl3 and Nalcolyte 675 Coagulating Agents,
W76-08290 9-16 5D

SAINT LOUIS UNIV., MO. DEPT. OF EARTH AND ATMOSPHERIC SCIENCES.
The 1973 Flood and Man's Constriction of the Mississippi River,
W76-00901 9-02 4A

SAINT MARY'S COLL., WINONA, MINN.
Potamological Effects of Fish Hatchery Discharge,
W76-03650 9-08 5C

SAINT MARY'S UNIV., HALIFAX (NOVA SCOTIA).
Kraft Effluent Treatment by Flotation,
W76-08463 9-16 5D

SAINT MARY'S UNIV., SAN ANTONIO, TEX. SCHOOL OF LAW.
A Proposal for Adoption of A Legal Doctrine of Groundstream Water Interrelationship in Texas,
W76-10731 9-20 4B

SALA MAGNETICS, INC., CAMBRIDGE, MASS.
Sala-HGMS Magnetic Filters for the Treatment of Combined Sewer Overflow,
W76-11265 9-21 5D

SALEM STATE COLL. MASS. DEPT. OF BIOLOGY.
Some of the Growth Characteristics of Gonyaulax Tamarensis Isolated from the Gulf of Maine,
W76-07617 9-15 5C

SALEN AND WICANDER A.B., SUNDBYBERG (SWEDEN). (ASSIGNEE).
Method and Device for Ascertaining Small Amounts of Oil in Water,
W76-13156 9-24 5A

SALT RIVER PROJECT, PHOENIX, ARIZ.
Water Use as a Factor in Meeting Electric Power Needs,
W76-00747 9-02 6D

Environmental Costs for the Navajo Generating Station,
W76-00761 9-02 5D

Salt River Project Annual Report, 1974.
W76-01704 9-04 6B

Aerial Snowpack Mapping,
W76-02755 9-06 2C

SAN ANTONIO WASTEWATER TREATMENT PLANT, TEX.
Dealing with the Discharge Monitoring Report,
W76-06325 9-13 5G

SAN BERNARDINO VALLEY MUNICIPAL WATER DISTRICT, CALIF.
Problems of Public Works Projects in the Present Economic Climate,
W76-10980 9-20 6C

SAN DIEGO STATE UNIV., CALIF.
The Systems Concept and Pollution Control,
W76-10357 9-19 5G

The Activities of Enzymes as Pollution Indicators,
W76-10363 9-19 5A

SAN DIEGO STATE UNIV., CALIF. DEPT. OF BIOLOGY.
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W76-06259 9-13 3B

SAN DIEGO STATE UNIV., CALIF. DEPT. OF BOTANY.
Irradiance Reduction: Effects on Standing Crops of the Eelgrass, Zostera Marina in a Coastal Lagoon,
W76-10067 9-19 5C

SAN DIEGO UNIV., CALIF. DEPT. OF BIOLOGY.
A Comparison of Short-Term Effects of Thermal Addition on Photosynthesis and Plant-Water Stress in Three Ecosystems,
W76-08884 9-17 5C

SAN DIEGO UNIV., CALIF. SCHOOL OF LAW.
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W76-11975 9-22 5G

SAN FRANCISCO STATE UNIV., CALIF. SCHOOL OF NATURAL SCIENCES.
Results of Sea Surface Mapping in the Peru Upwelling System,
W76-02698 9-06 5A

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W76-00911 9-02 8B

SAN PAULO UNIV. (BRAZIL). CENTER FOR NUCLEAR ENERGY IN AGRICULTURE.
Unsaturated Hydraulic Conductivity Determination by a Scaling Technique,
W76-02558 9-06 2G

SANDCO LTD., OTTAWA (ONTARIO). (ASSIGNEE).
Environment Protective Oil Skimming and Removal Apparatus,
W76-09048 9-17 5G

SANDIA LABS., ALBUQUERQUE, N. MEX.
Treatment of Sewage Sludge with Combinations of Heat and Ionizing Radiation (Thermoradiation),
W76-09523 9-18 5D

SANDOZ PRODUCTS LTD., LEEDS (ENGLAND).
Water Conservation--An Alternative to Solvent Dyeing,
W76-01628 9-04 3E

SANDWELL INTERNATIONAL INC., ATLANTA, GA.
Process Wastewater: Reclamation or Disposal,
W76-11376 9-21 5D

SANGAMON STATE UNIV., SPRINGFIELD, ILL.
Oxygen Demand Parameters: Correlation of BOD5 with COD,
W76-03701 9-08 5A

SANITAIRE WATER POLLUTION CONTROL CORP., MILWAUKEE, WIS.
Oxygen Transfer Efficiency in Deep Tanks,
W76-03691 9-08 5D

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The Extent of Hazard and the Hygienic Standardization of Isophthalonitrile in Bodies of Water, (In Russian),
W76-12286 9-23 5C

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Experience in the Sanitary Protection of Water Bodies in a Raion of Moscow, (In Russian),
W76-03637 9-08 5D

SANTA BARBARA COUNTY WATER AGENCY, LOS ANGELES, CALIF.
Major Junction Structure Verified by Modeling,
W76-12840 9-24 8B

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W76-03057 9-07 5C

SARGENT AND LUNDY, CHICAGO, ILL.
Radial Dispersion Through Adsorbing Porous Media,
W76-08512 9-16 5B

Transient Dispersion in Uniform Porous Media Flow,
W76-12842 9-24 5B

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W76-13052 9-24 6E

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W76-12587 9-23 5G

SASKATCHEWAN RESEARCH COUNCIL, SASKATOON.
Monitoring Agricultural Pollution Using Natural Fluorescence,
W76-03387 9-07 5A

SASKATCHEWAN UNIV., REGINA. DEPT. OF BIOLOGY.
The in Vitro Sensitivity of Some Species of Chlorophyceae to a Selected Range of Herbicides,
W76-08824 9-17 5C

SASKATCHEWAN UNIV., SASKATOON.
Optimizing Organic Carbon and Color Removal from a Board Mill Effluent,
W76-05724 9-12 5D

SASKATCHEWAN UNIV., SASKATOON. DEPT. OF BIOLOGY.
Thermal Regime Alteration and Vital Environmental Physiological Signals in Aquatic Organisms,
W76-03478 9-07 5C

Osmoregulation in Trichocorixa Verticalis Interiores Sailer (Hemiptera, Corixidae) - An Inhabitant of Saskatchewan Saline Lakes, Canada,
W76-12733 9-24 5C

SASKATCHEWAN UNIV., SASKATOON. DEPT. OF SOIL SCIENCE.
Carbon Dioxide Evolution from Virgin and Cultivated Soil as Affected by Management Practices and Climate,
W76-06003 9-12 2G

SAVANNAH RIVER ECOLOGY LAB., AIKEN, S.C.
Growth and Developmental Responses of Larval Toad Populations to Heated Effluent in a South Carolina Reservoir,
W76-02010 9-05 5C

Evaluation of Heat Distribution in a South Carolina Reservoir Receiving Heated Water,
W76-03463 9-07 5C

Effects of Thermal Effluent on the Fat Content of the Mosquito Fish,
W76-03467 9-07 5C

Effects of Thermal Effluent on the Population Dynamics of Helminth Parasites in Largemouth Bass,
W76-03477 9-07 5C

Effects of Thermal Effluent on Populations of Mosquito Fish,
W76-03479 9-07 5C

Growth and Condition of Juvenile Largemouth Bass from a Reservoir Receiving Thermal Effluent,
W76-03480 9-07 5C

Biochemical Genetics of Sunfish III. Genetic Subdivision of Fish Populations Inhabitating Heated Waters,
W76-03481 9-07 5C

Enhanced Growth and Increased Body Size of Turtles Living in Thermal and Post-Thermal Aquatic Systems,
W76-03482 9-07 5C

Distribution of Alligators in Response to Thermal Gradients in a Reactor Cooling Reservoir,
W76-03484 9-07 5C

Impact of Production-Reactor Effluents on Vegetation in a Southeastern Swamp Forest,
W76-03486 9-07 5C

Population Ecology of Parasites in Turtles from Thermally Altered and Natural Aquatic Communties,
W76-03491 9-07 5C

Bird Diversity and Thermal Stress in a Cypress Swamp,
W76-03493 9-07 5C

Abundance and Diversity of Waterfowl Inhabiting Heated and Unheated Portions of a Reactor Cooling Reservoir,
W76-03494 9-07 5C

SAVANNAH RIVER ECOLOGY LAB., AIKEN, S.C.

Ecology of Artificially Heated Streams, Swamps and Reservoirs on the Savannah River Plant, the Thermal Studies Program of the Savannah River Ecology Laboratory,
W76-08870 9-17 5C

Thermal Ecology of Dragonflies in Habitats Receiving Reactor Effluent,
W76-08881 9-17 5C

Mineral Cycling in Southeastern Ecosystems.
W76-10266 9-19 5C

Frequency Distributions of Radiocesium Concentrations in Soil and Biota,
W76-10273 9-19 5B

Radiocesium Levels in Vegetation Colonizing a Contaminated Flood Plain,
W76-10298 9-19 5C

Seasonal Variation in Radiocesium Concentrations in Three Tree Species,
W76-10299 9-19 5C

Distribution of Radiocesium in Vegetation Along a Contaminated Stream,
W76-10300 9-19 5B

Effects of Age, Sex, and Pelage Phenotype on the Elemental Composition of the Old-Field Mouse,
W76-10301 9-19 5A

Prediction of Elemental Content in the Old-Field Mouse,
W76-10302 9-19 5A

Chemical Composition of White-Tailed Deer: Whole-Body Concentrations of Macro- and Micronutrients,
W76-10303 9-19 5C

Radiocesium Concentrations in Whole-Body Homogenates and Several Body Compartments of Naturally Contaminated White-Tailed Deer,
W76-10304 9-19 5C

Amounts and Spectral Properties of Dissolved Organic Compounds from Some Freshwater of the Southeastern U.S.,
W76-12138 9-22 5A

SAVANNAH RIVER ESTUARY LAB., AIKEN, S. C.

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W76-03492 9-07 5C

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W76-04844 9-10 5C

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Method for Biologically Treating Sewage and an Installation for Carrying out the Method,
W76-09047 9-17 5D

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W76-07438 9-14 5D

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Meteorological Influences of Atmospheric Cooling Systems as Projected in Switzerland,
W76-04814 9-10 5B

SCIENCE APPLICATIONS, INC., MCLEAN, VA.

Surface Effects Skimmer Developments,
W76-09308 9-17 5G

SCIENTIFIC ASSOCIATES, INC., SANTA MONICA, CALIF.

Development and Preliminary Design of an Experimental Prototype Free Vortex Oil Skimmer,
W76-11929 9-22 5G

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W76-06862 9-14 5B

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Some Data on Comparative Evaluation of Radioactive and Chemical Pollution Factors in Freshwater Reservoirs,
W76-06886 9-14 5B

Radioecological Concentration Processes in the Water-Fish Line,
W76-06895 9-14 5C

SCIENTIFIC RESEARCH INST. OF WATER TRANSPORT HYGIENE, MOSCOW (USSR).

Characteristics of Boats as Sources of Sea Pollution, (In Russian),
W76-13191 9-24 5B

SCOTT PAPER CO., PHILADELPHIA, PA. (ASSIGNEE).

Recovery and Separation of Chemicals Produced During Kraft Pulping Operations,
W76-08467 9-16 5D

SCOTT POLAR RESEARCH INST., CAMBRIDGE (ENGLAND).

Airborne Laser Profiling of Swell in an Open Ice Field,
W76-04695 9-10 2C

Radio-Echo Sounding: Glaciological Interpretations and Applications,
W76-05375 9-11 2C

Investigations of Sub-Ice Bedrock Characteristics by Radio-Echo Sounding,
W76-05377 9-11 2C

Comparison of Electromagnetic and Seismic-Gravity Ice Thickness Measurements in East Antarctica,
W76-05382 9-11 7B

Velocity of Radio Waves in Ice by Means of a Bore-Hole Interferometric Technique,
W76-05383 9-11 7B

A Submarine Sonar Study of Arctic Pack Ice,
W76-05394 9-11 7B

SCOTT POLAR RESEARCH INST., CAMBRIDGE (ENGLAND); AND BRITISH ANTARCTIC SURVEY, LONDON (ENGLAND).

Glacier Sliding Measured by a Radio-Echo Technique,
W76-05378 9-11 2C

SCOTTISH HORTICULTURAL RESEARCH INST., INVERGOWRIE.

Localization of Damage Incurred During Water Imbibition by Pisum Sativum and Zea Mays Seeds, as Revealed by the Topographic Tetrazolium Test,
W76-06649 9-13 2I

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The Nutrient Status of Algal Cells in Continuous Culture,
W76-04596 9-10 5C

SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CALIF.

Edge Waves and Beach Cusps,
W76-00558 9-02 2L

Horizontal Scales of Midocean Internal Tides,
W76-02709 9-06 2L

N2:AR, Nitrification and Denitrification in Southern California Borderland Basin Sediments,
W76-04952 9-10 5B

The Deposition of Molybdenum in Anoxic Waters,
W76-05996 9-12 2K

Temperature and Salinity Structure in the Weddell Sea,
W76-06394 9-13 2L

Analytical Model of Duct-Flow Fluidization,
W76-10450 9-19 8B

Wave Induced Loads on Multi-Element Structures,
W76-10458 9-19 8B

Barium in Southern California Coastal Waters: A Potential Indicator of Marine Drilling Contamination,
W76-11089 9-20 5A

Sand Level Changes on Torrey Pines Beach, California,
W76-12383 9-23 2L

Surface Water Temperatures at Shore Stations, United States West Coast, 1973.
W76-12995 9-24 7C

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210Po Radioactivity in Organs of Selected Tunas and Other Marine Fish,
W76-07962 9-15 5C

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Description of Seasonal Beach Changes Using Empirical Eigenfunctions,
W76-03377 9-07 2L

SCRIPPS INSTITUTION OF OCEANOGRAPHY, SAN DIEGO, CALIF. VISIBILITY LAB.

Beam Transmissometers for Oceanographic Measurements,
W76-03879 9-08 2L

Volume-Scattering Functions in Ocean Waters,
W76-03880 9-08 2L

SCRIPPS INSTITUTION OF OCEANOGRAPHY, SAN DIEGO. MARINE PHYSICAL LAB.

Erosion on the Line Islands Archipelagic Apron: Effect of Small-Scale Topographic Relief,
W76-06386 9-13 2L

CS ENGINEERS, LONG BEACH, CALIF.
Demonstrated Technology and Research Needs for Reuse of Municipal Wastewater,
W76-00692 9-02 5D

Municipal Wastewater Reuse in the U.S.,
W76-02189 9-05 5D

CS ENGINEERS, RESTON, VA.
Outlooks for the Future of Deep Well Disposal,
W76-12370 9-23 5E

EATAC INC., BANGKOK (THAILAND).
Regional Water Quality Management,
W76-12147 9-22 5G

ECONDARY PROCESSING SYSTEMS, WARREN, PA. (ASSIGNEE).
Continuous Pressure Filtering and/or Screening Apparatus for the Separation of Liquids and Solids,
W76-03511 9-08 5D

ECRETARIAT FOR INTERNATIONAL ECOLOGY, (SWEDEN).
Soil Erosion and Sedimentation in Tanzania and Lesotho,
W76-06593 9-13 4D

EIKAI REGIONAL FISHERIES RESEARCH LAB., NAGASAKI (JAPAN).
Warm Water Effluents and Plankton, (In Japanese),
W76-12740 9-24 5C

EPTIC TANK SYSTEMS, BERKELEY, CALIF.
Beneficial Effects of Baking Soda Added to Septic Tanks,
W76-10012 9-19 5D

ERVICE FAUNE QUEBEC, ST. FAUSTIN. STATION FOR PISCICULTURE.
Reproduction of the Banded Killifish: Fundulus Diaphanus Diaphanus (Le Sueur), (In French),
W76-07937 9-15 2H

EVERN-TRENT WATER AUTHORITY, BIRMINGHAM (ENGLAND). DEPT. OF OPERATIONS.
Quality of Water Discharged from an Urban Motorway,
W76-04104 9-09 5B

EVERN-TRENT WATER AUTHORITY, (ENGLAND).
Development of a Gross Pollution Detector: Laboratory Studies,
W76-00609 9-02 5A

Development of a Gross Pollution Detector: Field Trials,
W76-00610 9-02 5A

A Continuous Gargantuan Task for Severn Trent,
W76-00640 9-02 5A

EVILLE UNIV., (SPAIN), DEPT. OF ANALYTICAL CHEMISTRY.
Simultaneous Spectrophotometric Determination of Nickel and Cobalt in Mixtures with 3-Hydroxypicolinealdehyde Azine,
W76-09042 9-17 5A

HANDON SOUTHERN INSTRUMENTS LTD., CAMBERLEY (ENGLAND).
Improvements in the Atomic-Fluorescence Determination of Mercury by the Cold-Vapour Technique,
W76-02882 9-06 5A

SHEFFIELD UNIV. (ENGLAND). DEPT. OF GEOGRAPHY.
The Significance and Variation of Atmospheric Nutrient Inputs in a Small Catchment System,
W76-08728 9-16 5A

SHELL DEVELOPMENT CO. HOUSTON, TEX.
An Aquifer Model for Fissured Reservoirs,
W76-03370 9-07 2F

Heavy Collars Aid Hole Control,
W76-10102 9-19 8G

SHELL DEVELOPMENT CO., HOUSTON, TEX. BELLAIRE RESEARCH CENTER.
Identification of Waterborne Oils,
W76-05150 9-11 5A

SHELL (GERRY) ENVIRONMENTAL ENGINEERS, BRENTWOOD, TENN.
Testing and Application of Static Aerators,
W76-11372 9-21 5D

SHELL OIL CO., HOUSTON, TEX.
Environmental Effects of Drilling Muds and Cuttings,
W76-00411 9-01 5C

Controlling Well Kicks When Shut-In Methods are Unsafe,
W76-03760 9-08 8C

SHELL OIL CO., HOUSTON, TEX. (ASSIGNEE).
Removal of Floating Pollutants,
W76-05533 9-12 5G

Oil Spill Cleanup Method and Apparatus,
W76-11846 9-22 5G

SHELL OIL CO., NEW ORLEANS, LA.
Tubing-Casing Reclamation Saved Shell Over $3 Million,
W76-10101 9-19 8G

SHELL RESEARCH LTD, CHESTER (ENGLAND). THORNTON RESEARCH CENTER.
European Experience in the Identification of Waterborne Oil,
W76-05143 9-11 5A

SHERBROOKE UNIV. (QUEBEC). DEPT. OF CIVIL ENGINEERING.
Design of a Stormwater Sewer by Nonlinear Programming--1,
W76-10034 9-19 5D

SHERWOOD MEDICAL INDUSTRIES, INC., WATERBURY, CONN.
Industrial Waste Treatment System Reduces Pollution,
W76-08711 9-16 5D

SHIMANE UNIV., MATSUE (JAPAN). FACULTY OF AGRICULTURE.
The Distribution of Coliforms in Fresh Water, (In Japanese),
W76-09934 9-18 5C

Studies on the Improvement Effect of Waste Liquor from Pulp Mills for the Soils: I. The Vegetation Experiments with Soybeans and Corn, (In Japanese),
W76-11563 9-21 5E

SHIMONOSEKI UNIV. OF FISHERIES (JAPAN).
Studies on Death of Fish Caused by Red Tide, (In Japanese),
W76-01934 9-04 5C

SHUR-RANE CORP., SAN JOSE, CALIF. (ASSIGNEE)
Mobile Irrigation System,
W76-04276 9-09 3F

SIBERIAN INST. OF PLANT PHYSIOLOGY AND BIOCHEMISTRY, IRKUTSK (USSR).
Aftereffect of Spring Frosts on Protein Synthesis in Winter Wheat Leaves Depending on the Form of Nitrogenous Fertilizer, (In Russian),
W76-07422 9-14 3F

SIECO, INC., COLUMBUS, IND.
Rotating Biological Reactors Remove Nutrients, Part I,
W76-03712 9-08 5D

Rotating Biological Reactors Remove Nutrients, Part II,
W76-03713 9-08 5D

Economical Residential Pressure Sewer System with No Effluent,
W76-12861 9-24 5D

SIEMENS A. G., MUNICH (WEST GERMANY).
Device for Separating Solids and Other Foreign Bodies from Liquids in a Pipe Conduit,
W76-08017 9-15 5D

SIENA UNIV. (ITALY). INST. OF COMPARATIVE ANATOMY.
Bodily Distribution, Accumulation and Excretion of Mercury in a Fresh-Water Mussel,
W76-10081 9-19 5C

Toxicity of Three Oils to Bivalve Gametes and Larvae,
W76-11967 9-22 5C

SIMON FRASER UNIV., BURNABY (BRITISH COLUMBIA). DEPT. OF BIOLOGICAL SCIENCES.
Influences of Some Freshwater Plants on the Development and Survival of Mosquito Larvae in British Columbia,
W76-06048 9-12 5G

SIMON FRASER UNIV. BURNABY (BRITISH COLUMBIA). DEPT. OF GEOGRAPHY.
Okanagan Water Decisions,
W76-03630 9-08 5G

SIMON-HARTLEY LTD., STOKE-ON-TRENT, (ENGLAND).
Development of a Continuous Inclined Sand Bed Filter,
W76-09668 9-18 5D

SIMONS (H. A.) INTERNATIONAL LTD., VANCOUVER (BRITISH COLUMBIA).
Diffuser Design,
W76-09291 9-17 8A

SINGAPORE UNIV. DEPT. OF CIVIL ENGINEERING.
Unsteady Flow to a Nonpenetrating Artesian Well,
W76-12445 9-23 2F

SINKLER, GIBBS, SIMON AND GUERARD, CHARLESTON, S.C.
Presentation Concerning Pollution Control Facilities Revenue Bonds,
W76-09767 9-18 5G

SIOUX FALLS WATER DEPT. S. DAK.
Sioux Falls Restores Four Wells with Collector Pipe,
W76-09510 9-18 3B

SIR GEORGE WILLIAMS UNIV., MONTREAL (QUEBEC). DEPT. OF BIOLOGICAL SCIENCES; AND SIR GEORGE WILLIAMS UNIV., MONTREAL (QUEBEC). WATER POLLUTION RESEARCH LAB.
The Toxicity of Various Mining Flotation Reagents to Rainbow Trout (Salmo Gairdneri),
W76-08448 9-16 5C

SIRRINE (J. E.), CO., GREENVILLE, S.C.
Solving Textile Wastewater Problems: Three Case Histories,
W76-04028 9-09 5D

SKELLY AND LOY, HARRISBURG, PA.
Up-Dip Versus Down-Dip Mining, An Evaluation,
W76-01868 9-04 5G

Mine Drainage Pollution Watershed Survey, Cherry Creek, Casselman River Watersheds, Garrett County, Maryland.
W76-08386 9-16 5B

SKELLY AND LOY, HARRISBURG, PA.; AND ZOLLMAN ASSOCIATES, INC., BALTIMORE, MD.
Preparation of Plans and Specifications for Pollution Abatement Activities in Cherry Creek Watershed, Maryland.
W76-08385 9-16 5G

SKIDAWAY INST. OF OCEANOGRAPHY, SAVANNAH, GA.
Fate of Petroleum Hydrocarbons in Marine Zooplankton,
W76-00144 9-01 5C

The Effect of Duration of Feeding, Amount of Food, Light Intensity, and Animal Size on Rate of Ingestion of Pelleted Food by Juvenile Penaeid Shrimp,
W76-01154 9-03 8I

Stimulation and Inhibition of Phytoplankton Growth by Low Molecular Weight Hydrocarbons,
W76-01923 9-04 5C

Spartina Revegetation on Dredge Spoil in SE Marshes,
W76-03121 9-07 5G

Control of Species Composition in Enriched Mass Cultures of Natural Phytoplankton Populations,
W76-06757 9-13 5C

Possible Influence of Atmospheric Transport on the Total Mercury Content of Southeastern Atlantic Continental Shelf Surface Waters,
W76-09224 9-17 5B

Report on the Hydrologic and Sedimentologic Study of the Offshore Spoil Disposal Area, Savannah, Georgia,
W76-09309 9-17 5E

Evaluation of Combined Applications of Ultrafiltration and Complexation Capacity Techniques to Natural Waters,
W76-09690 9-18 5A

Effects of Environmental Levels of Mercury and Cadmium on Rates of Metal Uptake and Growth Physiology of Selected Genera of Marine Phytoplankton,
W76-10280 9-19 5C

The Role of Spartina Alterniflora in the Flow of Lead, Cadmium, and Copper Through the Salt-Marsh Ecosystem,
W76-10281 9-19 5C

Heavy-Metal Concentrations in Selected Georgia Estuarine Organisms with Comparative Food-Habit Data,
W76-10282 9-19 5C

Concentrations of Total Mercury and Methyl Mercury in Fish and Other Coastal Organisms: Implications to Mercury Cycling,
W76-10283 9-19 5B

River Input of Inorganic Phosphorus and Nitrogen to the Southeastern Salt-Marsh Estuarine Environment,
W76-10286 9-19 5C

Overview of Conference Programs,
W76-11481 9-21 6G

Conclusion and Recommendations Conference/Workshop,
W76-11485 9-21 6G

SKIDMORE COLL., SARATOGA SPRINGS, N.Y. DEPT. OF BIOLOGY.
Seasonal Variation of Manganese in a Eutrophic Lake,
W76-01142 9-03 5C

SKOPJE UNIV. (YUGOSLAVIA).
Design of Alternating Diffuser Pipes,
W76-10952 9-20 8B

SKOPJE UNIV. (YUGOSLAVIA). CENTER FOR RADIOISOTOPES APPLICATION IN SCIENCE AND INDUSTRY.
The Application of Semiconductor Compounds as Indicator Electrodes,
W76-03500 9-07 5A

SLETCO, BEIRUT (LEBANON).
The Influence of Slope and Rain Intensity on Runoff and Infiltration.
W76-10702 9-20 2A

SLOVENSKA AKADEMIE VIED, BRATISLAVA (CZECHOSLOVAKIA). LAB. OF FISHERIES HYDROBIOLOGY.
Contribution to the Knowledge of the Distribution, Biomass and Drift of the Zooplankton in the Czechoslovak-Hungarian Stretch of the Danube, (In German),
W76-07306 9-14 5C

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Presence and Some Properties of Bacteria of the Family Pseudomonadaceae in the River Danube, (In German),
W76-09792 9-18 5A

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The Bacterial Composition, and the Metabolic Activity of Some Physiological Groups of Bacteria in Two Gravel Pit Lakes,
W76-06749 9-13 5C

SLOVENSKA AKADEMIJA ZNANOSTI IN UMETNOSTI, LJUBLIJANA (YUGOSLAVIA); AND GEOLOGICAL SURVEY, MENLO PARK, CALIF.
A Late Holocene Pollen Diagram from Near Lake Tahoe, El Dorado County, California,
W76-03897 9-08 2I

SLOVENSKE NARODNE MUZEUM, BRATISLAVA (CZECHOSLOVAKIA).
Several Facts About the Changes in the Quantity of the Phytoplankton of the Danube, (In Czech),
W76-07300 9-14 5C

SLOVENSKE POLNOHOSPODARSKE AKADEMIE, BRATISLAVA (CZECHOSLOVAKIA). LABORATORIUM RYBARSTVA.
Contribution to the Knowledge of the Algal Flora of a Fishpond in Bratislave-Zelezna Studnicka, (In Czech),
W76-07287 9-14 5C

SMITHSONIAN ASTROPHYSICAL OBSERVATORY, CAMBRIDGE, MASS.
Network Design Considerations for the Global Environmental Monitoring System (GEMS) of the United Nations,
W76-10646 9-20 5A

SMITHSONIAN INSTITUTION, CAMBRIDGE, MASS. CENTER FOR SHORT-LIVED PHENOMENA.
Directory of EPA, State and Local Environmental Quality Monitoring and Assessment Activities.
W76-10623 9-20 5G

SMITHSONIAN INSTITUTION, EDGEWATER, MD. CHESAPEAKE BAY CENTER FOR ENVIRONMENTAL STUDIES.
Classification of Wetlands Vegetation Using Small Scale Color Infrared Imagery,
W76-06411 9-13 2L

SMITHSONIAN INSTITUTION, ROCKVILLE, MD. RADIATION BIOLOGY LAB.
Phosphorus Flux and Cycling in Estuaries,
W76-08689 9-16 5C

Phosphorus Cycling in a Maryland Deciduous Forest Subjected to Various Levels of Mineral-Nutrient Loading,
W76-10313 9-19 5B

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W76-11935 9-22 5B

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The Biological and Ecological Effects of Oil Pollution in Tropical Waters. An Annotated Bibliography,
W76-11936 9-22 5C

SMOGLESS ITALIANA SPA, MILAN (ITALY).
Complete Recovery of Italian In-Plant Waste Waters,
W76-04053 9-09 5D

SNAM PROGETTI S.P.A., MILAN (ITALY). (ASSIGNEE).
Sea Water Desalination Apparatus,
W76-13136 9-24 3A

SNOWY MOUNTAINS ENGINEERING CORP., COOMA (AUSTRALIA).
Stage 1 Development of the Shoalhaven Scheme-I.
W76-01732 9-04 6B

Catchment Models for Urban Areas,
W76-04139 9-09 2A

Data Needs, Aquisition, and Availability for Hydrologic Models,
W76-04146 9-09 7C

CIETA ITALIANA RESINE S.P.A., MILAN ALY). (ASSIGNEE).
Multistage Flash Evaporator for Producing Soft Water from a Saline Water,
W76-05978 9-12 3A

CIETE ALSTHOM, GRENOBLE (FRANCHE). SSIGNEE)
Method and Apparatus for Compacting Fluid Sludges,
W76-04278 9-09 5D

CIETE D'ETUDES POUR LE TRAITEMENT UTILISATION DES EAUX, PARIS RANCE).
Choice Between Surface and Groundwater for Water Supplies to Urban Centres,
W76-00814 9-02 4B

CIETE DU CANAL DE PROVENCE ET AMENAGEMENT DE LA REGION OVENCALE LE THOLONET, AIX-EN-OVENCE (FRANCE).
Elaboration and Use of a Mathematical Model o Forecast in Quantity and Quality, The Water Demands of Various Sectors of Industry,
W76-12562 9-23 6D

CIETE GRENOBLOISE D' ETUDE ET D' PLICATIONS HYDRAULIQUES (FRANCE).
Application of Dynamic Programming in Framing Operating Rules for a Multi-Purpose Dam,
W76-12541 9-23 4A

Dynamic Programming for Determination of a Storm Water Outlet System of Pipes and Flood-Damping Dams,
W76-12542 9-23 4A

DEHNE (JULIUS SCHULTE) K.G., JESSELDORF-BILK (WEST GERMANY).
Considerations Regarding Operation of Paper Mills Without Effluents (Gedanken zum abwasserlosen Betriev von Papierfabriken),
W76-00056 9-01 5D

OIL CONSERVATION SERVICE, AMHERST, ASS.
Inventory of Potential and Existing Upstream Reservoir Sites, Taunton and Narragansett Bay Study Areas.
W76-01269 9-03 7C

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Pollution Abatement Systems for Farm Animal Wastes in Southeast Michigan,
W76-11057 9-20 5D

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Cooperation With The Soil Conservation Service,
W76-02650 9-06 6E

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Thick BH Horizons in the North Carolina Coastal Plain: I. Morphology and Relation to Texture and Soil Ground Water,
W76-06402 9-13 2G

Thick BH Horizons in the North Carolina Coastal Plain: II: Physical and Chemical Properties and Rates of Organic Additions from Surface Sources,
W76-06403 9-13 2G

SOIL CONSERVATION SERVICE, BOISE, IDAHO.
Georgetown Creek Watershed Project, Bear Lake County, Idaho (Final Environmental Impact Statement).
W76-00972 9-02 8A

Flood Hazard Analyses for Lower Marsh Creek (Including Selected Tributaries), Bannock County, Idaho.
W76-12580 9-23 4A

SOIL CONSERVATION SERVICE, BOZEMAN, MONT.
Summary of Snow Survey Measurements for Montana, 1922-1974,
W76-00291 9-01 7C

Stillwater River and Rosebud Creek Flood Hazard Analyses, Stillwater County, Montana.
W76-01483 9-03 2E

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Pines on a High Salt Diet,
W76-00154 9-01 3C

SOIL CONSERVATION SERVICE, COLLEGE PARK, MD.
Predicting Sediment Yield in Urban Areas,
W76-09746 9-18 4D

SOIL CONSERVATION SERVICE, COLUMBUS, OHIO.
Flood Hazard Analyses Report: East Branch Nimishillen Creek, Stark County, Ohio.
W76-12586 9-23 4A

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Soil Conservation Service Program in Animal Waste Management,
W76-11046 9-20 5G

SOIL CONSERVATION SERVICE, DURHAM, N.H.
The River's Reach: An Assessment of Existing Flood Protection in Upstream Watersheds of the Connecticut River Basin.
W76-01592 9-04 4A

SOIL CONSERVATION SERVICE, GOLDEN, COLO.
Meeting Future Water Requirements by Water Conservation,
W76-13013 9-24 3F

SOIL CONSERVATION SERVICE, HONOLULU, HAWAII.
Disposal Lagoon.
W76-10618 9-20 5D

SOIL CONSERVATION SERVICE, KEWAUNEE, WIS.
Manure Ponds for Minimizing Pollution,
W76-07176 9-14 5D

SOIL CONSERVATION SERVICE, LINCOLN, NEBR.
Keeping the Feeder in Business,
W76-03983 9-08 5G

Identification and Nature of Dispersive Soils,
W76-13170 9-24 8D

SOIL CONSERVATION SERVICE, MADISON, WIS.
Controlling Barnyard Runoff,
W76-11049 9-20 5D

SOIL CONSERVATION SERVICE, RALEIGH, N. C.
Nitrogen Movement in a Shallow Aquifer System of the North Carolina Coastal Plain,
W76-04099 9-09 5B

Clarks Creek Flood Plain Study, Catawba County, North Carolina.
W76-12582 9-23 4A

SOIL CONSERVATION SERVICE, RICHMOND, VA.
Flood Hazard Analyses: Buffalo River, Amherst County, Virginia.
W76-05643 9-12 4A

Flood Hazard Analyses: Blacks Run-Cooks Creek, Rockingham County and Harrisonburg, Virginia.
W76-05644 9-12 4A

SOIL CONSERVATION SERVICE, SPOKANE, WASH.
Suspended Sediment and Turbidity in Irrigation Return Flows - A Prototype Study,
W76-13017 9-24 5B

SOIL CONSERVATION SERVICE TEMPLE, TEX.
Management of Runoff Water in Relation to Feedlot Operations,
W76-07168 9-14 5D

Seepage Loss from Holding Ponds,
W76-11051 9-20 5B

Soil Conservation Service, Texas Tech University Workshop Committee on Feedlot Waste.
W76-12363 9-23 5G

Management of Runoff Water in Relation to Feedlot Operations,
W76-12365 9-23 5D

Soil Conservation Service Standard and Specifications for Pollution Abatement Measures for Confined Livestock or Poultry Feeding Operations,
W76-12367 9-23 5G

Plan of Work, Red River Basin Above Denison Dam.
W76-12816 9-24 4A

SOIL CONSERVATION SERVICE, UPPER DARBY, PA.
Installation Checks on 4-Inch (102 MM) Corrugated Polyethylene Drain Tubing,
W76-01071 9-03 3F

SOIL CONSERVATION SERVICE, UPPER DARBY, PA. ENGINEERING DIV.
Urban Hydrology for Small Watersheds.
W76-08509 9-16 4D

SOIL CONSERVATION SERVICE, WASHINGTON, D. C.
Matching Resources and People,
W76-10723 9-20 6B

Flood Hazard Analyses: Royal River and Chandler Brook, Town of North Yarmouth, Maine.
W76-13053 9-24 4A

SOIL CONSERVATION SERVICE, WASHINGTON, D.C. ENGINEERING DIV.
UD Method of Reservoir Flood Routing.
W76-11761 9-22 8B

Urban Hydrology for Small Watersheds.
W76-13044 9-24 4C

SOIL CONSERVATION SERVICE, WASHINGTON, D.C. RIVER BASINS.
Future Water Policies,
W76-01617 9-04 6E

SOIL INST., TEHRAN (IRAN).
Water Requirements of Crops,
W76-01884 9-04 3F

SOIL RESEARCH LAB., CHANDIGARH (INDIA).
Occurrence and Distribution of Potassium Ions in Natural Waters in India,
W76-00897 9-02 5B

SOIL SURVEY INST., WAGENINGEN (NETHERLANDS).
Relationships Between the Hydraulic Conductance of Surface Crusts and Soil Management in a Typic Hapludalf,
W76-03366 9-07 2G

Unsaturated Flow During Soil Treatment of Septic Tank Effluent,
W76-05058 9-11 5B

SORBENT SCIENCES CORP., COVINA, CALIF. (ASSIGNEE).
Foraminous Composition for Removal of Oleophilic Material from the Surface of Water,
W76-03012 9-07 5G

SOUTH AFRICAN INVENTIONS DEVELOPMENT CORP., PRETORIA. (ASSIGNEE).
Improvements in and Relating to Waste Water Treatment,
W76-12603 9-23 5D

SOUTH CAROLINA DEPT. OF HEALTH AND ENVIRONMENTAL CONTROL, COLUMBIA.
How to Design Aerated Lagoon Systems to Meet 1977 Effluent Standards Experimental Studies,
W76-09157 9-17 5D

How to Design Aerated Lagoon Systems to Meet 1977 Effluent Standards,
W76-09703 9-18 5D

SOUTH CAROLINA MARINE RESOURCE RESEARCH INST., CHARLESTON.
A New Device For Subsampling Plankton Samples,
W76-09396 9-17 7B

SOUTH CAROLINA STATE BUDGET AND CONTROL BOARD, COLUMBIA.
Permits for Construction Below High Water Mark.
W76-05240 9-11 6E

SOUTH CAROLINA STATE COLL., ORANGEBURG. DEPT. OF NATURAL SCIENCES.
Potable Water Quality in Rural Georgetown County,
W76-05050 9-11 5A

SOUTH CAROLINA UNIV., COLUMBIA.
Determination of Nitrate in Water Samples Using A Portable Polarographic Instrument,
W76-02506 9-06 5A

Commentary on: Alternate Approaches to Order: International Ocean Organization and Their Regulatory Function,
W76-07342 9-14 6E

SOUTH CAROLINA UNIV., COLUMBIA. BELLE W. BARUCH COASTAL RESEARCH INST.
Synergistic Effects of Temperature and Other Environmental Parameters on Organisms,
W76-02007 9-05 5C

SOUTH CAROLINA UNIV., COLUMBIA. BELLE W. BARUCH COASTAL RESEARCH INST.; AND SOUTH CAROLINA UNIV., COLUMBIA. DEPT. OF BIOLOGY.
Effects of Acute Exposure to Sublethal Concentrations of Cadmium on the Thermal Resistance of the Mummichog,
W76-03465 9-07 5C

SOUTH CAROLINA UNIV., COLUMBIA, COLL. OF ENGINEERING.
Investigation of Roadway Drainage as Related to the Performance of Flexible Pavements,
W76-08534 9-16 8B

SOUTH CAROLINA UNIV., COLUMBIA. DEPT. OF BIOLOGY.
The Santee Swamp as a Nutrient Sink,
W76-10288 9-19 5C

SOUTH CAROLINA UNIV., COLUMBIA. ELECTRON MICROSCOPE LAB.
Effects of Calcium, Strontium, and Magnesium on the Coccolithophorid Cricosphaera (Hymenomonas) Carterae. I. Calcification,
W76-10078 9-19 5C

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Chemical and Sediment Budgets for a Small Tidal Creek, Charleston Harbor, S. C.,
W76-01511 9-04 5B

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Cannibalism by the Adult Alewife (Alosa Pseudogarengus) in Southern Lake Michigan,
W76-11324 9-21 2H

SOUTH DAKOTA DEPT. OF NATURAL RESOURCES DEVELOPMENT, PIERRE. DIV. OF WEATHER MODIFICATION.
South Dakota Weather Modification Program, Research Cooperative Studies Under Project Skywater,
W76-10819 9-20 3B

SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY, RAPID CITY.
Hydrogeology of a Portion of the Sand Hills and Ogallala Aquifer, South Dakota and Nebraska,
W76-01299 9-03 2F

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Ground Water Geochemistry of the Pahasapa Limestone,
W76-00375 9-01 2K

SOUTH DAKOTA SCHOOL OF MINES AND TECHNOLOGY, RAPID CITY. INST. OF ATMOSPHERIC SCIENCES.
Radar Reflectivity Factor Calculations in Numerical Cloud Models Using Bulk Parameterization of Precipitation,
W76-01860 9-04 2B

Effects of Cloud Seeding on Summertime Precipitation in North Dakota,
W76-06603 9-13 3B

Determination of R-Z Relationships for Weather Radar Using Computer Optimization Techniques,
W76-06604 9-13 2B

The Potential for Rainfall Increases from Convective Clouds in the Northern Plains,
W76-06607 9-13 3B

Cloud Seeding to Enhance Summer Rainfall in the Northern Plains,
W76-06612 9-13 3B

Observations in Hailstorms Using the T-28 Aircraft System,
W76-11851 9-22 2B

SOUTH DAKOTA STATE UNIV., BROOKINGS.
Egg-Processing Plant Wastes,
W76-08170 9-16 3E

SOUTH DAKOTA STATE UNIV., BROOKINGS. DEPT. OF AGRICULTURAL ENGINEERING.
Pipe Size Selection for Community Irrigation Systems,
W76-00839 9-02 3F

Bi-Level Subsurface Drainage Theory,
W76-01847 9-04 2F

Linear Programming Analysis of Branched Pipe Network,
W76-02366 9-05 3F

Criteria for Determining Feasibility of Rural Water Supply Systems in Livestock Production Areas,
W76-02367 9-05 3F

Field and Laboratory Evaluation of Bi-Level Drainage Theory,
W76-10934 9-20 4A

SOUTH DAKOTA STATE UNIV., BROOKINGS. DEPT. OF BOTANY AND BIOLOGY.
Remote Sensing of Water Quality in Prairie Lakes,
W76-02363 9-05 5A

SOUTH DAKOTA STATE UNIV., BROOKINGS. DEPT. OF CIVIL ENGINEERIG.
Agricultural Runoff Pollutes Surface Waters, Part I,
W76-03719 9-08 5A

SOUTH DAKOTA STATE UNIV., BROOKINGS. DEPT. OF CIVIL ENGINEERING.
Intercepting Trench at a Landfill Renders Leachate into Drinkable Source of Water,
W76-01627 9-04 5G

Agricultural Runoff Pollutes Surface Waters, Part I,
W76-02694 9-06 5B

Bacteriological Quality of Surface Runoff From Agricultural Land, Part II,
W76-02695 9-06 5B

SOUTH DAKOTA STATE UNIV., BROOKINGS,. DEPT. OF MICROBIOLOGY.
Bacteriological Water Quality Methods for Determining Ruminant Fecal Pollution,
W76-00380 9-01 5A

SOUTH DAKOTA STATE UNIV., BROOKINGS. DEPT. OF PLANT SCIENCE.
Water Movement Within the Root Zone of Irrigated and Nonirrigated Grain Sorghum,
W76-05994 9-12 2G

OUTH DAKOTA STATE UNIV., BROOKINGS. EMOTE SENSING INST.
Remote Sensing Techniques for Evaluation of Soil Water Conditions,
W76-01067 9-03 7B

OUTH DAKOTA STATE UNIV., BROOKINGS. 'ATER RESOURCES INST.
Pollution Potential of Runoff from Livestock Feeding Operations,
W76-10531 9-20 5B

OUTH DAKOTA UNIV., VERMILLION. CHOOL OF LAW.
South Dakota's System of Water Management and its Relation to Land Use and Economic Development,
W76-10721 9-20 4A

OUTH WEST WATER AUTHORITY NGLAND). EXETER DIV.
The Developing Role of Water Authorities,
W76-06322 9-13 6B

OUTHAMPTON UNIV. (ENGLAND). DEPT. OF CONOMICS.
The Economics of Pollution and its Control,
W76-04542 9-10 5G

OUTHAMPTON UNIV. (ENGLAND). DEPT. OF EOGRAPHY.
A Note on the Contribution of Fog Drip to Streamflow,
W76-10927 9-20 2B

OUTHAMPTON UNIV. (ENGLAND). DEPT. OF EOLOGY.
Major and Trace Element Anomalies in Stream Sediments of the Teign Valley Orefield,
W76-03303 9-07 5A

OUTHAMPTON UNIV. (ENGLAND). DEPT. OF CEANOGRAPHY.
Molybdenum in a Nearshore and Estuarine Environment, North Wales.
W76-06000 9-12 2K

OUTHEAST ENVIRONMENTAL RESEARCH AB., ATHENS, GA.
Determination of Dissolved Gases in Water by Diffusion and Gas Chromatographic Techniques,
W76-02427 9-05 5A

The Needs for Water Quality Models on Agricultural Watersheds,
W76-04353 9-09 5B

Environmental Applications of Advanced Instrumental Analysis: Assistance Projects, FY 74,
W76-06647 9-13 5A

Analysis of Organic Compounds in Two Kraft Mill Wastewaters,
W76-07245 9-14 5A

OUTHEASTERN AREA STATE AND PRIVATE ORESTRY, ATLANTA, GA.
Summary of Municipal Watershed Management Surveys in Eastern United States,
W76-09466 9-18 4D

OUTHEASTERN FOREST EXPERIMENT TATION, RESEARCH TRIANGLE PARK, N.C. ORESTRY SCIENCES LAB.
Some Effects of Fertilization on Mineral Cycling in Loblolly Pine,
W76-10323 9-19 5C

SOUTHERN CALIFORNIA COASTAL WATER RESEARCH PROJECT, EL SEGUNDO.
Coastal Water Research Project. Annual Report for the Year Ended 30 June 1975,
W76-09899 9-18 5B

Disease Responses in Southern California Coastal Fishes,
W76-10366 9-19 5C

Polychlorinated Biphenyls Off Southern California,
W76-10647 9-20 5C

Modeling the Fates of Metals in Ocean-Discharged Wastewaters,
W76-11464 9-21 5B

SOUTHERN CALIFORNIA EDISON CO., LOS ANGELES, CALIF.
Treatment of Sea Water Produces High-Quality Reactor Coolant,
W76-04262 9-09 3A

SOUTHERN CALIFORNIA METROPOLITAN WATER DISTRICT, LOS ANGELES.
The Metropolitan Water District of Southern California Report for the Fiscal Year July 1, 1973 to June 30, 1974.
W76-03285 9-07 4A

SOUTHERN CONNECTICUT STATE COLL., NEW HAVEN. DEPT. OF GEOGRAPHY.
The Illusory Treasure of Davy Jones' Locker,
W76-11972 9-22 6E

SOUTHERN ILLINOIS UNIV., CARBONDAL, COOPERATIVE WILDLIFE RESEARCH LAB.
Environmental Inventory and Assessment of Navigation Pools 24, 25, and 26 Upper Mississippi and Lower Illinois Rivers; Floodplain Animals and Their Habitats,
W76-11747 9-22 6G

SOUTHERN ILLINOIS UNIV., CARBONDALE.
An Evaluation of Water Reuse for Municipal Supply,
W76-00514 9-02 5D

SOUTHERN ILLINOIS UNIV., CARBONDALE, DEPT. OF FORESTRY.
The Quantity and Distribution of Four Nutrient Elements in High-Elevation Forest Ecosystems, Balsam Mountains, North Carolina,
W76-10319 9-19 5B

SOUTHERN ILLINOIS UNIV., CARBONDALE. DEPT. OF GEOGRAPHY.
Coping with Flood Hazard in New Braunfels and Seguin, Texas,
W76-05502 9-12 6F

SOUTHERN ILLINOIS UNIV., CARBONDALE. FISHERIES RESEARCH LAB.
Toxicity of Nitrite to Channel Catfish,
W76-00864 9-02 5C

Vulnerability of Channel Catfish to Largemouth Bass Predation,
W76-04401 9-09 2I

SOUTHERN ILLINOIS UNIV., EDWARDSVILLE. DEPT. OF URBAN AND ENVIRONMENTAL ENGINEERING.
Designing Post-Chlorination by Chemical Reactor Approach,
W76-12150 9-22 5D

SOUTHERN METHODIST UNIV., DALLAS, TEX. INST. OF TECH.
The Extended Boussinesq Problem,
W76-07786 9-15 2F

Optimal Operating Policy for Multiple Metropolitan Water Supply Reservoir Systems: Theory and Applications, (Vol 1),
W76-10604 9-20 6A

Optimal Operating Policy for Multiple Metropolitan Water Supply Reservoir Systems: Appendices, (Vol. 2),
W76-10605 9-20 6A

Solving Discrete-Variable Multiple-Constraint Non Linear Programs: The Decision State Method, (Vol. 3),
W76-10606 9-20 6A

SOUTHERN PIEDMONT CONSERVATION RESEARCH CENTER, WATKINSVILLE, GA.
Comparisons of Calculated and Measured Capillary Potentials from Line Sources,
W76-07768 9-15 2G

SOUTHERN RESERACH INST., BIRMINGHAM, ALA.
Disposal and Utilization of Waste Kiln Dust From Cement Industry,
W76-00686 9-02 5D

SOUTHERN WATER AUTHORITY, EAST SUSSEX, (ENGLAND). EAST SUSSEX WATER AND DRAINAGE DIV.
Small Sewage Works that Function Satisfactorily,
W76-10228 9-19 5D

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT, BROOKSVILLE.
The Occurrence and Development of Guest Sink, Hernando County, Florida,
W76-00296 9-01 4B

SOUTHWEST OHIO REGIONAL COMPUTER CENTER, CINCINNATI.
Estimating the Reliability of Advanced Waste Treatment - Part 2,
W76-12666 9-23 5D

SOUTHWEST RESEARCH INST., SAN ANTONIO, TEX.
Nuclear Magnetic Resonance Sensors for Moisture Measurement in Roadways,
W76-12458 9-23 2G

SOUTHWEST TEXAS STATE UNIV., SAN MARCOS. DEPT. OF BIOLOGY.
The Influence of Dissolved Oxygen Concentrations on Three Species on Water Mites (Hydracarina),
W76-06133 9-12 5C

SOUTHWESTERN GREAT PLAINS RESEARCH CENTER, BUSHLAND, TEX.
Alternate-Furrow Irrigation of Fine Textured Soils,
W76-01073 9-03 3F

Economics of Land Leveling for Dryland Grain Production,
W76-01692 9-04 3F

Efficient Reservoir Design for Playas of the Southern High Plains,
W76-04296 9-09 3B

Seepage Beneath Feedyard Runoff Catchments,
W76-07186 9-14 5B

Quantity and Quality of Beef Feedyard Runoff in the Great Plains,
W76-07196 9-14 5B

SOUTHWESTERN GREAT PLAINS RESEARCH CENTER, BUSHLAND, TEX.

Limited Irrigation of Grain Sorghum in Alternating Strips with Wheat,
W76-08542 9-16 3F

Deep Tillage of Graded-Furrow-Irrigated Pullman Clay Loam,
W76-08543 9-16 3F

No-Till Seeding of Irrigated Sorghum Double Cropped After Wheat,
W76-08756 9-17 3F

Plant Measurements as Indicators of Crop Water Deficit,
W76-10622 9-20 3F

Sprinkler Evaporation Losses in the Southern Plains,
W76-13004 9-24 3F

Reduced Irrigation Tailwater Runoff for Increased Water-Use Efficiency,
W76-13008 9-24 3F

SOUTHWESTERN STOCKHOLM REGIONAL WATER AND SEWERAGE WORKS, INC. (SWEDEN).
Southwestern Stockholm Regional Treatment System,
W76-00996 9-02 5D

SPEED SCIENTIFIC SCHOOL, LOUISVILLE, KY.
Natural Biological Control of the Salt Marsh Mosquito in the Acid Mine Drainage Swamps in Western Kentucky,
W76-02433 9-05 5G

SPERRY RAND CORP., NEW YORK. (ASSIGNEE).
Geothermal Energy System and Control Apparatus,
W76-02247 9-05 4B

Geothermal Energy System Heat Exchanger and Control Apparatus,
W76-13139 9-24 4B

SPESSARD L. HOLLAND LAW CENTER, GAINESVILLE, FLA.
The Use and Legal Significance of the Mean High Water Line in Coastal Boundary Mapping,
W76-04355 9-09 6E

A Sound Water Plan for South Florida Implementation of the 1972 Water Resources Act,
W76-10742 9-20 6E

The Swale,
W76-12038 9-22 6E

Navigable Water, A Definition: All Bent Out Of Shape,
W76-12039 9-22 6E

Waters: Numberless Yet Meager,
W76-12040 9-22 6E

Legal Standards for Determining the Ordinary High Water Mark,
W76-12042 9-22 6E

Ebb and Flow: Navigability and the Corps of Engineers Washed in the Tide of Environmental Protection,
W76-12043 9-22 6E

Public Servitude for Navigation on Artificial Waters and the Commerce Clause,
W76-12044 9-22 6E

The Beneficial Use of Water Resources and Guidelines for Allocation of Water Resources in Times of Emergency,
W76-12045 9-22 6E

Federal Jurisdiction over Landfills on Sub-Aqueous Lands,
W76-12046 9-22 6E

Use of the 'Trust Doctrine' for Wetlands Protection,
W76-12047 9-22 6E

Effluent Charges, Towards a New Environment,
W76-12048 9-22 6E

The Taking Issue, Flood Plain and Wetlands Zoning,
W76-12049 9-22 6E

A Survey of the Various State Power Plant Siting Laws,
W76-12050 9-22 6E

Federal Regulation in the Licensing of Nuclear Power Plant Facilities,
W76-12051 9-22 6E

Legal Problems of Marina Construction and Channel Marker Installation in Florida,
W76-12052 9-22 6E

Public Beach Access: Guaranteeing a Place to Spread Your Towel,
W76-12053 9-22 6E

Flood Protection Zoning as a Factor in Determining Damages in Eminent Domain Proceedings,
W76-12054 9-22 6E

Coastal Zone Management in Florida: The Need for a Comprehensive Program,
W76-12055 9-22 6E

Major Water Law Systems: A Comparative Study of the United States and Spain,
W76-12056 9-22 6E

Residential Development A Look at the Regulatory Controls of Florida's Water Resources,
W76-12057 9-22 6E

Landowner's Authority to Protect Property Above Ordinary High Water Line from Seasonal Flooding,
W76-12058 9-22 6E

SPRING MILLS, GRACE, S.C.
Financing Pollution Control Projects in South Carolina Using Tax-Exempt Industrial Revenue Bonds,
W76-09770 9-18 5G

SREDNEAZIATSKII NAUCHNO-ISSLEDOVATELSKII GIDROMETEOROLOGICHESKII INSTITUT, TASHKENT (USSR).
Calculating Snow Cover Density in the Kyzylcha Mountain River Basin,
W76-02912 9-06 2C

SSP AGRICULTURAL EQUIPMENT, INC., BURBANK, CALIF. (ASSIGNEE).
Moisturizing Apparatus for Use with Wind Machines,
W76-08399 9-16 3F

ST. LAWRENCE RIVER WORKING GROUP, QUEBEC.
Report for the Fiscal Year 1972 - 1973: Study of the St. Lawrence River.
W76-04166 9-09 4A

STAATLICHES FORCHUNGSINSTITUT GEOCHEMISCHES, BAMBERG (WEST GERMANY).
In Regard to the Question of the Determination of Heavy Metals in River Waters with the Aid of Radionuclide X-Ray Fluoresence Analysis, (In German),
W76-06619 9-13 5A

STAATLICHES MUSEUM FUER NATURKUNDE, LUDWIGSBURG (WEST GERMANY).
Possibilities and Limitations in Biological Control of Weeds,
W76-09920 9-18 4A

STAMICARBON B. V., GELLEN (NETHERLANDS). (ASSIGNEE).
Process for Removing Heavy Metals from Solutions,
W76-05496 9-11 5D

STANDARD OIL CO., CHICAGO, ILL.
Optimize the Effluent System - Part 4: Approach to Chemical Treatment,
W76-12667 9-23 5D

STANDARD OIL CO. OF CALIFORNIA, HUNTINGTON BEACH. WESTERN OPERATIONS DIV.
Technical Capabilities in Offshore Completion and Workover Operations to Maximize Safety,
W76-11002 9-20 5G

STANDARD OIL CO. OF CALIFORNIA, WESTERN OPERATIONS, INC., OILDALE.
Impression Tool Evaluates Perforation Effectiveness,
W76-11918 9-22 8G

STANDARD PRODUCTS CO., CLEVELAND, OHIO. (ASSIGNEE).
Waste Converter,
W76-01539 9-04 5E

STANFORD ENVIRONMENTAL LAW SOCIETY, CALIF.
Water Allocation,
W76-03920 9-08 4A

Water Pollution,
W76-03921 9-08 5G

A Survey of Remedies (To Water Pollution and Water Scarcity Problems).
W76-04331 9-09 5G

STANFORD RESEARCH INST., MENLO PARK. CALIF.
ESIAC: A Data Products System for ERTS Imagery (Time-Lapse Viewing and Measuring),
W76-02056 9-05 7C

Study of Time-Lapse Processing for Dynamic Hydrologic Conditions,
W76-02713 9-06 4A

Future Applications of Desalting Processes for Reduction of Industrial Water Pollution,
W76-03153 9-07 3A

Recycling of Water in Poultry Processing Plants,
W76-08298 9-16 3E

Energy Development: The Environmental Tradeoffs. Volume 3: Relative Environmental Ranking of Proposed Offshore Continental Shelf Areas on the Basis of Impacts of Oil Spills,
W76-13039 9-24 6G

ANFORD RESEARCH INST., MENLO PARK, LIF. CENTER FOR THE STUDY OF SOCIAL LICY.
Handbook of Forecasting Techniques,
W76-07062 9-14 6A

ANFORD UNIV., CALIF.
Hydrology for Engineers, Second Edition,
W76-09661 9-18 8B

The Role of Cost-Benefit Analysis in Policy Making,
W76-11165 9-21 6B

ANFORD UNIV., CALIF. DEPT. OF CIVIL GINEERING.
Water Resources Decision Making on the Basis of the Public Interest,
W76-01015 9-03 6A

Oxidation of Cinnabar by FE (III) in Acid Mine Waters,
W76-01099 9-03 2K

Three-Dimensional Simulation of Thermally-Influenced Hydrodynamic Flows,
W76-01518 9-04 5B

NEPA's Influence on Federal Water Planning: Part I, Effect of the 'Review and Comment Process' on the Corps of Engineers and Soil Conservation Service,
W76-01800 9-04 6B

NEPA's Influence on Federal Water Planning: Part 2, Case Studies of Corps of Engineers' Planning in California,
W76-01801 9-04 6B

Stimulation of Geothermal Aquifers,
W76-02685 9-06 4B

Water Plan Ranking and the Public Interest,
W76-06438 9-13 6B

Simulation of Thermally-Influenced Hydrodynamic Flows: Final Report,
W76-10813 9-20 2H

ANFORD UNIV., CALIF. DEPT. OF EOLOGY.
The Ability of Debris, Heavily Freighted with Coarse Clastic Materials, To Flow on Gentle Slopes,
W76-10711 9-20 2J

ANFORD UNIV., PACIFIC GROVE, CALIF. OPKINS MARINE STATION.
Trace Metal Levels in Beach Dipterans and Amphipods,
W76-00877 9-02 5A

An Analysis of the Dynamics of DDT and Its Derivatives, DDD and DDE, in Marine Sediments
W76-10050 9-19 5C

ANLEY ASSOCIATES ENGINEERING LTD., DMONTON (ALBERTA).
Northern Environmental Engineering - A Canadian Challenge,
W76-11655 9-22 5D

TATE COLL. OF AGRONOMICAL SCIENCE, EMBLOUX (BELGIUM).
Diffusivity of Water in A Non-Saturated Heterogeneous Environment, (In French),
W76-07290 9-14 2G

STATE OCEANOGRAPHIC INST., MOSCOW (USSR).
Scientific Problems of the Systems for Global Monitoring and Investigation of Oil Pollution in the World Ocean,
W76-10372 9-19 5B

STATE UNIV. COLL., AT BROCKPORT, N.Y. DEPT. OF BIOLOGICAL SCIENCE.
The Effect of Oxidized Material on the Vertical Distribution of Freshwater Benthic Fauna,
W76-05743 9-12 5C

STATE UNIV. COLL. AT BROCKPORT, N. Y. DEPT. OF BIOLOGICAL SCIENCES.
(The Effect of Oxidized Material on the Vertical Distribution of Freshwater Benthic Fauna,
W76-03037 9-07 5C

STATE UNIV. COLL., BUFFALO, N.Y. GREAT LAKES LAB.
Crustacean Zooplankton of Southwestern Lake Ontario in 1972 During the International Field Year for the Great Lakes,
W76-11276 9-21 2H

STATE UNIV. OF NEW YORK AGRICULTURAL AND TECHNICAL COLL. AT MORRISVILLE.
Experiments and Observations on the Feeding Behavior of the Freshwater Leech Erpobdella Octoculata (L.) (Hirudinea: Erpobdellidae),
W76-12729 9-24 5C

STATE UNIV. OF NEW YORK AT ALBANY. ATMOSPHERIC SCIENCES RESEARCH CENTER.
Inadvertent Effects in Weather Modification,
W76-10909 9-20 3B

Introduction to the Atmospheric Aerosol System,
W76-10911 9-20 5A

Bubble Tube: Apparatus for Determining Rate of Collection of Bacteria by Air Bubble Rising in Water,
W76-12492 9-23 5A

STATE UNIV. OF NEW YORK AT ALBANY. DEPT. OF ATMOSPHERIC SCIENCES.
Detachment of Pendant Water Drops by High Voltage Pulses,
W76-05917 9-12 2B

STATE UNIV. OF NEW YORK AT ALBANY. DEPT. OF BIOLOGICAL SCIENCES.
Discussion (Of, 'Interdisciplinary Modeling of Limnological Aspects of the Great Lakes' by L. T. Crook),
W76-00068 9-01 2H

Zooplankton Production in Lake Ontario as Influenced by Environmental Perturbations,
W76-02502 9-06 5C

Comparative Photosynthetic and Respiratory Gas Exchange Characteristics of Atriplex Lentiformis (Torr.) Wats. In Coastal and Desert Habitats,
W76-02530 9-06 2D

Environmental and Intrinsic Control of Filtering and Feeding Rates in Arctic Daphnia,
W76-08933 9-17 5C

STATE UNIV. OF NEW YORK AT BINGHAMTON. DEPT. OF CHEMISTRY.
Phosphorus in New York State Rivers: Sources, Sinks, and Detergents,
W76-01170 9-03 5B

Selective Separations by Reactive Ion Exchange, Part II, Preconcentration and Determination of Complex Iron Cyanides in Waters,
W76-03583 9-08 5A

STATE UNIV. OF NEW YORK AT BINGHAMTON. DEPT. OF ECONOMICS.
A Simulation Model for the Management of Low Density Recreational Areas,
W76-06233 9-13 6B

STATE UNIV. OF NEW YORK AT BINGHAMTON. DEPT. OF GEOLOGICAL SCIENCES; AND STATE UNIV. OF NEW YORK AT BINGHAMTON. SCHOOL OF ADVANCED TECHNOLOGY.
Multiobjective Planning and Environmental Evaluation of Water Resource Systems,
W76-10610 9-20 6G

STATE UNIV. OF NEW YORK AT BUFFALO.
Chloride Build-Up and Control in Lake Erie,
W76-11318 9-21 5B

Capacitance Sensor for Soil Moisture Measurement,
W76-12457 9-23 2G

STATE UNIV. OF NEW YORK AT BUFFALO. DEPT. OF BIOLOGY.
Plankton Entrainment by the Condenser Systems of Nuclear Power Stations on Lake Ontario,
W76-02011 9-05 5C

Response of Perch and Their Forage to Thermal Discharges in Lake Ontario,
W76-02015 9-05 5C

Possible Effect of Lower Phosphorus Concentrations on the Phytoplankton in Onondaga Lake, New York, U.S.A.,
W76-13116 9-24 5C

STATE UNIV. OF NEW YORK AT BUFFALO. DEPT. OF CIVIL ENGINEERING.
The Influence of Urbanization on Stream Channel Behavior,
W76-09744 9-18 4C

Chloride Management in Lake Erie Basin,
W76-11114 9-21 5B

STATE UNIV. OF NEW YORK AT STONY BROOK. DEPT. OF ECONOMICS.
A Note on Uncertainty and the Evaluation of Public Investment Decisions,
W76-06617 9-13 6C

Optimal Pollution Control and Trade in Collective Goods,
W76-08367 9-16 5G

STATE UNIV. OF NEW YORK AT STONY BROOK. MARINE SCIENCES RESEARCH CENTER.
Fate of Wastewater Sludge in the New York Bight Apex,
W76-03825 9-08 5E

Sewage Sludge and Ammonium Concentrations in the New York Bight Apex,
W76-06667 9-13 5B

Some Comments on the Thermal Effects of Power Plants on Fish Eggs and Larvae,
W76-07489 9-15 5C

Fine Particles and Water Quality in the Coastal Marine Environment,
W76-11612 9-21 5B

STATE UNIV. OF NEW YORK AT STONY BROOK. MARINE SCIENCES RESEARCH CENTER.

Thermal Effects of Power Plant Entrainment on Survival of Fish Eggs and Larvae: A Laboratory Assessment,
W76-12769 9-24 5C

Possible Effects of Construction and Operation of a Supertanker Terminal on the Marine Environment in the New York Bight,
W76-13089 9-24 6G

STATE UNIV. OF NEW YORK AT SYRACUSE. COLL. OF ENVIRONMENTAL SCIENCE AND FORESTRY.

Hydrograph Responses to Watershed Model Size and Similitude Relations,
W76-00549 9-02 2A

Phenolic and Chlorophenolic Oligomers in Chlorinated Pine Kraft Pulp and in Bleach Plant Effluents,
W76-12475 9-23 5D

STATE UNIV. OF NEW YORK AT SYRACUSE. COLL. OF ENVIRONMENTAL SCIENCES AND FORESTRY.

Environmental Impact Statements in Planning Water and Related Land Resources,
W76-01333 9-03 6G

STATE UNIV. OF NEW YORK COLL. AT BUFFALO.

Buffalo Harbor Diked Disposal Sites: Engineering Properties and Drainage Characteristics,
W76-06666 9-13 5E

STATE UNIV. OF NEW YORK COLL. AT BUFFALO. DEPT. OF BIOLOGY.

Behavioral Thermoregulation of the American Alligator,
W76-02013 9-05 5C

STATE UNIV. OF NEW YORK COLL. AT BUFFALO. GREAT LAKES LAB.

The Abundance of Diatoms in the Southwestern Nearshore Region of Lake Ontario During the Spring Thermal Bar Period,
W76-11425 9-21 2H

STATE UNIV. OF NEW YORK COLL. AT CORTLAND. DEPT. OF POLITICAL SCIENCE.

Private Influence on Environmental Policy: The Case of the National Industrial Pollution Control Council,
W76-04346 9-09 6G

STATE UNIV. SYSTEM OF FLORIDA INST. OF OCEANOGRAPHY, ST. PETERSBURG.

Physical Oceanography Considerations,
W76-11483 9-21 6G

STATE UNIVERSITY OF NEW YORK AT STONY BROOK. MESA NEW YORK BIGHT PROJECT

Contaminant Effects on Biota of the New York Bight,
W76-12229 9-23 5C

STATION BIOLIGIQUE DES EYZIES (FRANCE).

The Application of 'Biotic Indices' to the Study of Pollution in a River with Cyprinidae, (In French),
W76-11580 9-21 5A

STATION D'HYDROBIOLOGIE CONTINENTALE, THONON-LES-BAINS (FRANCE).

Physico-Chemical Parameters of the Hydrographic System of Lake Nantua: Relation with Oscillatoria, (In French),
W76-11575 9-21 5C

STAVROPOL TERRITORIAL MEDICAL INST. (USSR).

Hygienic Assessment of Changes in Mineral Water Properties During its Treatment for Use in Internal Balneotherapeutic Procedures, (In Russian),
W76-09795 9-18 5C

STAZIONE SPERIMENTALE OLI E DEI GRASSI, MILANO (ITALY).

Anionic and Non-Ionic Surfactant Biodegradation in a Purifying Plant using Activating Muds (Biodegradazione de Tensioattivi Anionici e Non-Ionici in un Impianto di Trattamento a Fanghi Attivati),
W76-10238 9-19 5A

STEINITZ ROGERS ASSOCIATES, INC., CAMBRIDGE, MASS.

The Santa Ana River Basin: An Example of the Use of Computer Graphics in Regional Plan Evaluations.
W76-01899 9-04 6A

STERLING DRUG, INC., NEW YORK. (ASSIGNEE).

Catalyzed Process and Catalyst Recovery,
W76-05064 9-11 5D

Wastewater Treatment,
W76-05961 9-12 5D

Filter Cleaning Method,
W76-05974 9-12 5F

Treatment and Disposal of Sewage Sludge,
W76-10204 9-19 5D

Waste-Water Purification,
W76-11834 9-22 5D

Paper Mill Waste Sludge Oxidation and Product Recovery,
W76-12493 9-23 5D

STEVENS INST. OF TECH., HOBOKEN, N.J. DEPT. OF CHEMISTRY AND CHEMICAL ENGINEERING.

A Study of Aqueous Solutions by Nuclear Magnetic Resonance,
W76-04671 9-10 1B

STEVENS, THOMPSON AND RUNYAN, INC., PORTLAND, OREG.

Operations Manual Anaerobic Sludge Digestion,
W76-12700 9-24 5D

STEVENS, THOMPSON AND RUNYAN, INC., PORTLAND, OREG. ENVIRONMENTAL ENGINEERING DIV.

Portland Adds Secondary Treatment,
W76-09013 9-17 5D

STEVENS, THOMPSON AND RUNYAN, INC., SEATTLE, WASH.

Environmental Management for the Metropolitan Area-Water Quality, Part III.
W76-03501 9-08 5G

Water Pollution Control Act of 1972, Regional Impacts, Yellowstone River Basin.
W76-11789 9-22 5G

STEVENS, THOMPSON AND RUNYAN, INC., SEATTLE, WASH., RESOURCE PLANNING DIV.

Wastewater Irrigation and Forests,
W76-04634 9-10 5D

STEVENS, THOMPSON AND RUNYUN, INC., PORTLAND, OREG.

Retooling the Water Works Industry,
W76-03809 9-08 5F

STILSON (ALDEN E.) AND ASSOCIATES, COLUMBUS, OHIO.

Softening and Coagulation Sludge-Disposal for a Surface Water Supply,
W76-10252 9-19 5F

STIRLING UNIV. (SCOTLAND). DEPT. OF BIOLOGY.

Intertidal Fauna of the Industrialized Forth Estuary,
W76-11818 9-22 5C

STIRLING UNIV. (SCOTLAND). UNIT OF AQUATIC PATHOBIOLOGY.

A Comparison of the Effects of Temperature on Wound Healing in a Tropical and a Temperate Teleost,
W76-07484 9-15 5C

STOCKHOLM GAS AND WATER-WORKS, (SWEDEN).

Stockholm Through the Eyes of the Sewerage Engineer,
W76-00763 9-02 5D

STOCKHOLM UNIV. (SWEDEN). ASKO LAB.; AND STOCKHOLM UNIV. (SWEDEN). DEPT. OF ZOOLOGY.

Benthic Meiofauna as Indicator of Oxygen Conditions in the Northern Baltic Proper,
W76-01945 9-04 5B

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W76-01943 9-04 5C

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Vyredox-In Situ Purification of Ground Water,
W76-05553 9-12 5F

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Effects of Acclimatization and Physiological State on the Tolerance to High Temperatures and Reactions to Desiccation of Theodoxus Fluviatilis and Lymnea Peregra,
W76-12741 9-24 5C

STOCKHOLM UNIV. (SWEDEN). INST. OF METEOROLOGY.

Some Exploratory Experiments with a New Type of Rotating, Differentially-Heated Fluid Annulus,
W76-04970 9-10 2B

STOCKPORT TECHNICAL COLL., CHESHIRE (ENGLAND).

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W76-07483 9-15 5C

STONE AND WEBSTER ENGINEERING CORP., BOSTON, MASS.

Analytical Three-Dimensional Transient Modeling of Effluent Discharges,
W76-12433 9-23 5B

ONE AND WEBSTER ENGINEERING CORP., STON, MASS. ENVIRONMENTAL GINEERING DIV.
The Assessment of Impact Due to Entrainment f Ichthyoplankton,
W76-07493 9-15 5C

Entrainment and Drag Forces of Deflected ets,
W76-12969 9-24 8B

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Diversion of Water Through Northfield Mt. Pumped Storage Project,
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ONE (RALPH) AND CO., INC., LOS GELES, CALIF.
Forecasts of the Effects of Air and Water Pollution Controls on Solid Waste Generation.
W76-00510 9-02 5D

Effluent Detention Ponds Dechlorinate Wastewater,
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W76-11705 9-22 5D

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W76-11149 9-21 5G

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Thermophilic Bacterial Oxidation of Highly Concentrated Substrates,
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Possibilities and Limits of Extended Waste Water Purification (Moeglichkeiten und Grenzen der Weitergehanded Abwasserreinigung),
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The Effect of Various Designs of Rain Catching Basins on the Pollution of the Receiving Water and the Economy of the Sewer System (Die Auswirkung Der Verschiedenen Bauarten Von Regenuberlaufbecken Auf Die Schmutzbelastung Des Vorfluters Und Die Wirtschaftlichkeit Des Kanalnetzes),
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Types and Treatment of Sewage Sludges Practice in the Federal Republic of Germany,
W76-09513 9-18 5D

UTTGART UNIV. (WEST GERMANY). TTO-GRAF-INSTITUT.
Schriftenreih, (Otto-Graf-Institut), (In German).
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Submersible Oil Boom,
W76-01131 9-03 5G

BSURFACE DISPOSAL CORP., HOUSTON, EX.
Corrosion in Disposal Wells,
W76-05125 9-11 5E

SUEDDEUTSCHE VERSUCHS- UND FORSCHUNGSANSTALT FUER MILCHWIRTSCHAFT, WEIHENSTEPHAN (WEST GERMANY). BAKTERIOLOGISCHES INSTITUT.
The Microflora of Aerobic Bacteria in Gravel Pit Lakes, (In German),
W76-06777 9-13 5C

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Simplified Kjeldahl Nitrogen Determination for Seawater by a Semiautomated Persulfate Digestion Method,
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SUFFOLK COUNTY DEPT. OF ENVIRONMENTAL CONTROL, N.Y.
Contaminants in Rainwater and Their Relation to Water Quality, Part I,
W76-01769 9-04 5B

Contaminants in Rainwater and Their Relation to Water Quality, Part II,
W76-03445 9-07 5A

SUFFOLK COUNTY DEPT. OF HEALTH, N.Y.
Artificial Groundwater Recharge and Wastewater Reclamation,
W76-02197 9-05 5D

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SUMITOMO HEAVY INDUSTRIES, LTD., TOKYO (JAPAN). (ASSIGNEE).
Treating Waste Water Containing Nitriles and Cyanides,
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Activated Carbon Treatment of Pulp and Paper Waste Water,
W76-05730 9-12 5D

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The Handling and Treating of Water-Based Drilling Muds,
W76-08912 9-17 5D

SUNNITTELUKESKUS-MKR, HELSINKI (FINLAND).
Examination and Removal of Iron in Groundwater,
W76-05571 9-12 5B

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Anaerobic Digestion of Dairy Farm Slurry,
W76-02292 9-05 5D

SUSQUEHANNA RIVER BASIN COMMISSION, HARRISBURG, PA.; AND PENNSYLVANIA STATE GEOLOGICAL SURVEY, HARRISBURG.
Ground-Water Resources of Lackawanna County, Pennsylvania,
W76-02483 9-05 4B

SUSQUEHANNA RIVER BASIN COMMISSION, MECHANICSBURG, PA.
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W76-04451 9-09 6E

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W76-10589 9-20 3F

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W76-10169 9-19 3C

SWECO, INC., LOS ANGELES, CALIF. (ASSIGNEE).
Rotating Screen Separator,
W76-08016 9-15 5D

Method and Apparatus for the Activated Sludge Treatment of Wastewater,
W76-10208 9-19 5D

SWEDISH CELLULOSE CO., SUNDSVALL.
Water Pollution in Connection with Bark Dumping (Vattenfororeningar i samband med barkdeponering),
W76-05726 9-12 5B

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The Environmental Information System (EIS) in Sweden and Monitoring of the Environment,
W76-11241 9-21 5A

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Swedish Studies on Combination Effects of Thermal Discharges in the Aquatic Environment, Some Aspects of Power Plant Siting Policy,
W76-09495 9-18 5C

SWEDISH FOREST PRODUCTS RESEARCH LAB., STOCKHOLM.
Chemical Characterization of Fiber Building Board Mill Effluent,
W76-05731 9-12 5A

The Fiberlog, a New Monitor for Fibrous Effluents,
W76-10843 9-20 5A

Effluents from Chlorination and Alkaline Extraction of Pine Sulfate Pulp,
W76-10858 9-20 5B

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Chlorination of Sulphate Pulp at High Temperature,
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Biochemical and Chemical Oxygen Demands of Carbohydrates with Different Degrees of Polymerization,
W76-05303 9-11 5D

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Influence of Colloidal Particles on Dewatering of Activated Sludge with Polyelectrolyte,
W76-03680 9-08 5D

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W76-08130 9-16 2L

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W76-01947 9-04 5C

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Apparatus and Method for Removing Pollutants from Wastewater,
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SWIFT AND CO., OAK BROOK, ILL. RESEARCH AND DEVELOPMENT CENTER.
The Basic Electric Cell in Effluent Treatment,
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The Dispersed Flow Model for a Biological Reactor as Applied to the Activated Sludge Process,
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Pretreatment Provides Constant Effluent Quality,
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Method for Sludge Treatment,
W76-12410 9-23 5D

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W76-02269 9-05 5G

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W76-08583 9-16 2D

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W76-07704 9-15 5B

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W76-07705 9-15 5B

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Natural and Agricultural Ecosystems,
W76-08667 9-16 6G

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Sand Flathead (Platycephalus Bassensis) an Indicator Species for Mercury Pollution in Tasmanian Waters,
W76-11820 9-22 5B

TATA IRON AND STEEL CO., LTD, JAMSHEDPUR (INDIA). TOWN ENGINEERING DEPT.
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W76-00641 9-02 3D

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W76-10224 9-19 5E

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W76-09557 9-18 2A

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The Significance of Pore Diffusion to Filter Denitrification,
W76-11199 9-21 5D

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W76-05379 9-11 2C

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Effect of Wind Stress on Stratified Deep Lake,
W76-00551 9-02 2H

Experimental and Theoretical Investigations in an Oscillatory Turbulent Boundary Layer,
W76-10916 9-20 8B

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Some Aspects of Modelling the Long-Term Behaviour of Aquatic Ecosystems,
W76-11883 9-22 5B

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A Review on Decision Models in Economics of Regional Water Quality Management,
W76-10195 9-19 5G

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W76-10421 9-19 8B

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The Lower Trophic Level Toxicity Assessment in the Golden Horn Area in Istanbul,
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A Case Study Report on the Vistula River Basin,
W76-05514 9-12 4A

The Out-Of-Kilter Algorithm and Some of its Applications in Water Resources,
W76-05515 9-12 6A

The Simplified Integral Mathematical Model on a Small Low-Land Catchment,
W76-12831 9-24 2A

TECHNICON INDUSTRIAL SYSTEMS, TARRYTOWN, N.Y.
Automated Methods for Assessing Water Quality Come of Age,
W76-03233 9-07 5A

TECHNION-ISRAEL INST. OF TECH., HAIFA.
The Control of Nitrate Accumulation in Soils by Induced Denitrification,
W76-00732 9-02 5B

Use of Jet Pumps in Marine Waste Disposal,
W76-03379 9-07 5E

Recent Advances in the Treatment of Solid Wastes,
W76-09553 9-18 5D

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Planning for Water Recreation in Israel,
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Identifying the Parameters of an Aquifer Cell Model,
W76-04555 9-10 2F

Forecasting Water Levels in Aquifers by Numerical and Semihybrid Methods,
W76-05686 9-12 2F

A New Model for Predicting the Hydraulic Conductivity of Unsaturated Porous Media,
W76-12837 9-24 2G

TECHNION - ISRAEL INST. OF TECH., HAIFA. DEPT. OF FOOD ENGINEERING; AND TECHNION ISRAEL INST. OF TECH., HAIFA. DEPT. OF BIOTECHNOLOGY.
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W76-01767 9-04 5C

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Enteric Virus Behavior in Sand Dunes,
W76-01755 9-04 5D

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A Dependent Domain Model of Capillary Hysteresis,
W76-00903 9-02 2G

TECHNION - ISRAEL INST. OF TECH., HAIFA. LOWDERMILK FACULTY OF AGRICULTURAL ENGINEERING.
The Cost-Effectiveness of Water Resources Systems Considering Inadequate Hydrological Data,
W76-09626 9-18 6A

A Combined Model for Operating Irrigated Agricultural Systems Under Uncertainties,
W76-09634 9-18 3F

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W76-09201 9-17 5A

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W76-08080 9-15 2I

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A Very Rapid Liming and Tanning Process Without Effluent,
W76-08181 9-16 3E

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W76-09946 9-18 8B

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W76-09373 9-17 5G

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W76-06957 9-14 5D

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W76-10432 9-19 2L

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W76-10920 9-20 2L

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W76-12190 9-23 2L

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W76-11770 9-22 2E

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W76-09673 9-18 5D

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W76-07312 9-14 2I

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W76-09501 9-18 5A

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W76-12757 9-24 2D

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Integrated Mathematical Models Used for Groundwater Resources Planning in Areas Influenced by Human Settlements,.
W76-12543 9-23 4B

Optimization of Groundwater Withdrawals with Regard to Technical and Hydrological Constraints,
W76-12544 9-23 4B

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W76-12670 9-23 5D

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W76-09552 9-18 5D

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W76-11223 9-21 5D

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Use of Environmental Analyses on Wastewater Facilities by Local Government,
W76-05072 9-11 5D

TEL-AVIV UNIV. (ISRAEL).
Topographical Effects on Standard Normals of Rainfall Over Israel,
W76-02499 9-05 2B

TEL AVIV UNIV., (ISRAEL). DEPT. OF ENVIRONMENTAL SCIENCES.
Some Environmental Problems and Their Satellite Monitoring,
W76-01791 9-04 5B

A Stochastic Electrical Model of an Infinite Cloud: Charge Generation and Precipitation Development,
W76-02404 9-05 2B

The Effect of Electrical Conductivity on the Growth of the Electric Field in a Thunderstorm,
W76-03113 9-07 2B

TEL-AVIV UNIV., (ISRAEL). DEPT. OF ZOOLOGY.
Some Aspects of Recolonization of Coral Rocks in Eilat (Gulf of Aqaba) by Fish Populations After Poisoning,
W76-10058 9-19 5C

Water Economy and Drinking Regime of the Bedouin Goat,
W76-13125 9-24 3C

TELSCO INDUSTRIES, DALLAS, TEX. (ASSIGNEE).
Sprinkler Control,
W76-06466 9-13 3F

TELSCO INDUSTRIES, GARLAND, TEX. (ASSIGNEE).
Sprinkler Adjustment,
W76-11446 9-21 3F

TENCO HYDRO/AEROSCIENCES, INC., COUNTRYSIDE, ILL. (ASSIGNEE).
Dissolved Air Floatation System,
W76-05976 9-12 5D

TENECH ENVIRONMENTAL SERVICES, INC., SOUTH BEND, IND.
Automation of Water Supply Systems,
W76-12817 9-24 5F

TENNESSEE EASTMAN CO., KINGSPORT.
Dynamics of Nitrification in the Activated Sludge Process,
W76-03672 9-08 5D

Dynamics of Nitrification in the Activated Sludge Process,
W76-03797 9-08 5B

TENNESSEE UNIV. AT NASHVILLE.
Water Pollution Control in Alaska: The Alaska Environmental Conservation Act of 1971,
W76-04340 9-09 5G

TENNESSEE UNIV., KNOXVILLE.
Optimal Pricing and Investment in Community Water Supply,
W76-01600 9-04 6C

TENNESSEE UNIV., KNOXVILLE. CENTER FOR BUSINESS AND ECONOMIC RESEARCH.
Measuring and Minimizing the Social Cost of Environmental Pollution,
W76-05824 9-12 5G

TENNESSEE UNIV., KNOXVILLE. DEPT. OF AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY.
Economic Effects of Agricultural Land-Use Management on Soil Erosion and Farm Income in the Obion-Forked Deer River Basin,
W76-10612 9-20 4A

TENNESSEE UNIV., KNOXVILLE. DEPT. OF AGRICULTURAL ENGINEERING.
Dairy Lagoon System and Groundwater Quality,
W76-07185 9-14 5B

TENNESSEE UNIV., KNOXVILLE. DEPT. OF CHEMICAL ENGINEERING.
A Pilot Plant for Sewage Treatment by Cross-Flow Filtration,
W76-00246 9-01 5D

TENNESSEE UNIV., KNOXVILLE. DEPT. OF CHEMISTRY.
Determination of Selenium in Natural Waters Using the Centrifugal Photometric Analyzer,
W76-06128 9-12 2K

TENNESSEE UNIV., KNOXVILLE. DEPT. OF CIVIL ENGINEERING.
A Study of Continuous Water Quality Monitoring Systems,
W76-04006 9-09 5A

Impact of Coal Strip Mining on Water Quality and Hydrology of East Tennessee,
W76-05833 9-12 5B

TENNESSEE UNIV., KNOXVILLE. DEPT. OF ECONOMICS.
Economic Efficiency and Equity in Water Quality Control: Effluent Taxes and Information Requirements,
W76-07141 9-14 5G

TENNESSEE UNIV., KNOXVILLE. DEPT. OF ZOOLOGY.
Chydorid (Cladocera) Ecology: Seasonal Patterns and Abundance of Populations in Elk Lake, Minnesota,
W76-01719 9-04 2H

TENNESSEE UNIV., KNOXVILLE. WATER RESOURCES RESEARCH CENTER.
A Systems Analysis of a Continuous Water Quality Monitoring Project,
W76-01342 9-03 5A

TENNESSEE VALLEY AUTHORITY, KNOXVILLE.
Upstream Flood Lowering in Reservoirs,
W76-10938 9-20 4A

TENNESSEE VALLEY AUTHORITY, KNOXVILLE. FLOOD CONTROL BRANCH.
Monetary Values of Life and Health.
W76-05812 9-12 6F

TENNESSEE VALLEY AUTHORITY, KNOXVILLE. HYDRAULIC DATA BRANCH.
Nonpoint Source Mineral Water Quality Model,
W76-02922 9-06 5B

TENNESSEE VALLEY AUTHORITY, KNOXVILLE. LOCAL FLOOD RELATIONS.
Two Decades of Flood-Plain Management: The TVA Regional Experience,
W76-03271 9-07 6F

TENNESSEE VALLEY AUTHORITY, MUSCLE SHOALS, ALA. DIV. OF ENVIRONMENTAL PLANNING.
Biological Monitoring in Wheeler Reservoir Before Operation of Browns Ferry Nuclear Plant,
W76-02017 9-05 5C

TENNESSEE VALLEY AUTHORITY, MUSCLE SHOALS, ALA. ENVIRONMENTAL BIOLOGY BRANCH.
Interaction of Calcium and 2,4-D on Eurasian Watermilfoil,
W76-01141 9-03 4A

Optimum Dilution of Swine Wastes for Growth of Lemna Minor L. and Euglena Sp,
W76-07191 9-14 5D

TENNESSEE VALLEY AUTHORITY, NORRIS. DIV. OF FORESTRY, FISHERIES, AND WILDLIFE DEVELOPMENT.
Accumulation and Mobility of Cesium in Roots of Tulip Poplar Seedlings,
W76-10297 9-19 5B

TENNESSEE VALLEY AUTHORITY, WILSON DAM, ALA. DIV. OF HEALTH AND SAFETY.
Production and Control of Floodwater Mosquitoes Incidental to Water Level Operations on Reservoirs of the Tennessee Valley Authority,
W76-02443 9-05 5G

TENNESSEE VALLEY AUTHORITY, WILSON DAM, ALA. MALARIA CONTROL BRANCH.
Water Level Management for the Control of Anopheles Quadrimaculatus in the Tennessee Valley,
W76-02447 9-05 5G

TEOLLISUUDEN VOIMA OY/INDUSTRINS KRAFT A. B., KILO (FINLAND).
Heat Discharges into the Sea at the Olkiluoto Site: Laboratory Model Test Results and Reasons for Selected Arrangements,
W76-08858 9-17 5B

TERNOPOL STATE MEDICAL INST. (USSR).
Effect of Pyridine Dissolved in Water on the Gastric and Intestinal Mucosa of Experimental Animals, (In Russian),
W76-11526 9-21 5C

TESCO CHEMICALS, INC., ATLANTA, GA. (ASSIGNEE).
Water Treatment Composition Including Synthetic Wax,
W76-08029 9-15 5F

TETRA TECH, INC., LAFAYETTE, CALIF.
An Evaluation of Artificial Destratification for Control of Algal Blooms,
W76-01147 9-03 5C

Organic Sediment Model for Wastewater Outfall,
W76-09951 9-18 5B

Water Quality Analysis, Snake River, Idaho.
W76-11783 9-22 5G

TETRA TECH, INC., PASADENA, CALIF.
Measurement of Swash Profile and Orbital Motion on the Beach,
W76-02394 9-05 2L

Three-Dimensional Pollutant Modeling in Shear Flow,
W76-08740 9-16 5B

Mass Transport and Dispersion Off a Tidal Inlet,
W76-09381 9-17 5G

Tests on the Equilibrium Probiles of Model Beaches and the Effects of Grain Shape and Size Distribution,
W76-10422 9-19 2L

Water Quality Analysis, Columbia River.
W76-10579 9-20 5G

OCS Oil and Gas - An Environmental Assessment. A Report to the President by the Council on Environmental Quality, Vol. 3, The Effect of Natural Phenomena on OCS Gas and Oil Development.
W76-11949 9-22 6G

TETRADYNE CORP., RICHARDSON, TEX.
Fast Current Oil Response System,
W76-11928 9-22 5G

TEXACO, INC., BEACON, N.Y. ENVIRONMENTAL PROTECTION DEPT.
Water Pollution Control, Mid-Course Correction,
W76-06978 9-14 5G

TEXACO INC., NEW YORK. (ASSIGNEE).
Oil-Spill Detection System,
W76-02996 9-06 5A

Emulsion Breaking Method,
W76-05527 9-12 5G

Coking of Waste Kraft Pulping Liquors at Lowered pH,
W76-07761 9-15 5D

Process for Treating Water-Soluble Organic Wastes,
W76-08482 9-16 5D

Method for Controlling Scale,
W76-10469 9-19 5G

Process for Converting Aqueous Sewage to Potable Water,
W76-11215 9-21 5D

TEXAS A AND M RESEARCH FOUNDATION, COLLEGE STATION.
The Effects of Currents and Waves on an Oil Slick Retained by a Barrier,
W76-02549 9-06 5G

Follow-Up Field Survey of the Oil Pollution from the Tanker 'Metula',
W76-11943 9-22 5C

TEXAS A AND M UNIV., COLLEGE STATION.
High Electrolyte Water for Reclaiming Slowly Permeable Soils,
W76-01077 9-03 2G

Water Quality of Storm Runoff From a Texas Beef Feedlot,
W76-01089 9-03 5B

Emerging Issues in Feedlot Waste Management,
W76-03968 9-08 5G

Industry Candidates and General Locations for Artificial Industrial-Port Islands,
W76-09377 9-17 5G

Kinetics and Process Control of Nitrification in Completely Mixed Biological Wastewater Treatment,
W76-12620 9-23 5D

TEXAS A AND M UNIV., COLLEGE STATION. CENTER FOR APPLIED GEOSCIENCES.
An Evaluation of Weather Modification Activities in the Texas High Plains,
W76-03104 9-07 3B

Atmospheric Structure and Variability in Areas of Convective Storms Determined from 3-h Rawinsonde Data,
W76-12185 9-23 2B

TEXAS A AND M UNIV., COLLEGE STATION. COLL. OF AGRICULTURE.
An Exploratory Survey and Analysis of Sailing in Galveston Bay, Texas,
W76-08095 9-15 6B

Environmental Implications of Maintenance and Improvement of the Gulf Intracoastal Waterway in Texas,
W76-12390 9-23 5G

TEXAS A AND M UNIV., COLLEGE STATION. COLL. OF GEOSCIENCES.
Reservoir Impact Study,
W76-04501 9-10 6B

TEXAS A AND M UNIV., COLLEGE STATION. DEPT. AND OCEANOGRAPHY; AND TEXAS A AND M UNIV., COLLEGE STATION. COLL. OF GEOSCIENCES.
The Geochemistry of Sediments From the Northern Reykjanes Ridge and the Iceland - Faroes Ridge,
W76-01097 9-03 2K

TEXAS A AND M UNIV., COLLEGE STATION. DEPT. OF AGRICULTURAL ENGINEERING.
Irrigation Timing by the Stress Day Index Method,
W76-01082 9-03 3F

Optimization of Water Use Efficiency Under High Frequency Irrigation: II System Simulation and Dynamic Programming,
W76-01083 9-03 3F

Effects of Inundation Period on Seedling Growth,
W76-01084 9-03 4A

Trickle Irrigation Lateral Design,
W76-01568 9-04 3F

Groundwater Quality Beneath a Manure Disposal Area,
W76-04935 9-10 5B

Increased Water use Efficiency Through Trickle Irrigation,
W76-06904 9-14 3F

Trickle and Sprinkler Irrigation of Grain Sorghum,
W76-13003 9-24 3F

TEXAS A AND M UNIV., COLLEGE STATION. DEPT. OF BIOLOGY.

Accumulation, Release, and Distribution of Benzo (A) Pyrene -C14 in the Clam, Rangia Cuneata,
W76-00137 9-01 5C

Sublethal Effects of Oil, Heavy Metals and PCB's on Marine Organisms,
W76-00324 9-01 5C

Controlled Food-Chain Transfer of Dieldrin Residues From Phytoplankters to Clams,
W76-00867 9-02 5B

An Ultraviolet Spectrophotometric Method for the Determination of Naphthalene and Alkylnaphthalenes in the Tissues of Oil Contaminated Marine Animals,
W76-01933 9-04 5A

Survival and Chloride Ion Regulation of the Porcelain Crab Petrolisthes Armatus Exposed to Mercury,
W76-02328 9-05 5C

Interaction of Odour and Flow Perception and The Effects of Parathion in the Locomotor Orientation of the Goldfish Carassius Auratus L.,
W76-03030 9-07 5C

Toxicity of Polychlorinated Biphenyls (Aroclor 1254) to Adult, Juvenile and Larval Stages of the Shrimp Palaemonetes Pugio,
W76-10075 9-19 5C

Thermal Tolerance of Stored Fundulus Heteroclitus Gametes: Fertilizability and Survival of Embryos,
W76-11180 9-21 5C

TEXAS A AND M UNIV., COLLEGE STATION. DEPT. OF CHEMISTRY.

Problems in Analyses of Organic Pollutants in Open-Ocean Samples,
W76-11239 9-21 5A

TEXAS A AND M UNIV., COLLEGE STATION. DEPT. OF CIVIL ENGINEERING.

Feedback from Field Studies of Hydraulic Dredges,
W76-03122 9-07 8C

Recharge of Reclaimed Waste Water: Research Needs,
W76-11959 9-22 5D

Pavement Cracking in West Texas Due to Freeze-Thaw Cycling,
W76-12452 9-23 2C

TEXAS A AND M UNIV., COLLEGE STATION. DEPT. OF CIVIL ENGINEERING; AND TEXAS A AND M UNIV., COLLEGE STATION. COASTAL AND OCEAN ENGINEERING DIV.

A Dispersion Curve Study of Model Dredge Spoil Basins,
W76-04321 9-09 5B

TEXAS A AND M UNIV., COLLEGE STATION. DEPT. OF GEOGRAPHY; AND TEXAS A AND M UNIV., COLLEGE STATION. DEPT. OF GEOLOGY.

Some Economic and Decision Aspects of the Canyon Project,
W76-05505 9-12 6B

TEXAS A AND M UNIV., COLLEGE STATION. DEPT. OF INDUSTRIAL ENGINEERING.

System Optimization for Pulp and Paper Industrial Wastewater Treatment Design,
W76-04190 9-09 5D

TEXAS A AND M UNIV., COLLEGE STATION. DEPT. OF OCEANOGRAPHY.

Quantitative Estimates of Biological Mixing Rates in Abyssal Sediments,
W76-00010 9-01 2L

Processes Affecting the Concentration of Silica at the Sediment-Water Interface of the Atlantic Ocean,
W76-00304 9-01 2L

Oceanic Velocity Gradients,
W76-03736 9-08 2L

Suspended Matter and the Stability of the Water Column: Central Caribbean Sea,
W76-03893 9-08 2L

Light-Scattering Measurements and Chemical Analysis of Suspended Matter in the Near-Bottom Nepheloid Layer of the Gulf of Mexico,
W76-03894 9-08 2L

Phytoplankton of the Tampa Bay System, Florida,
W76-07973 9-15 5C

Wind-Driven Flow of Water Influenced by a Canopy,
W76-08801 9-17 2H

On Entrainment and Diffusion in a Gulf of Mexico Anticyclonic Ring,
W76-09723 9-18 2L

Use of Low Molecular-Weight-Hydrocarbon Concentrations as Indicators of Marine Pollution,
W76-10400 9-19 5B

Pelagic Tar in the Gulf of Mexico and Caribbean Sea,
W76-10409 9-19 5B

TEXAS A AND M UNIV., COLLEGE STATION. DEPT. OF PETROLEUM ENGINEERING.

Disposal of Drilling Fluids and Drilled-up Solids in Offshore Drilling Operations,
W76-08915 9-17 5D

TEXAS A AND M UNIV., COLLEGE STATION. DEPT. OF PHYSICS.

Absolute Calibration of a Scatterance Meter,
W76-03883 9-08 2L

TEXAS A AND M UNIV., COLLEGE STATION. DEPT. OF RANGE SCIENCE.

Factors Influencing Infiltration and Sediment Production of Semiarid Rangelands in Nevada,
W76-05912 9-12 2G

Secondary Succession Following Extended Inundation of Texas Coastal Rangeland,
W76-06267 9-13 4A

Influence of Vesicular Horizons on Watershed Management,
W76-06596 9-13 4D

Establishment of Vegetation for Shoreline Stabilization in Galveston Bay,
W76-07567 9-15 2L

TEXAS A AND M UNIV., COLLEGE STATION. DEPT. OF SOCIOLOGY AND ANTHROPOLOGY.

Sociological Analysis of Dam Impact: A Study of Twenty-Two Large Dams in Texas,
W76-05501 9-12 6B

TEXAS A AND M UNIV., COLLEGE STATION. DEPT. OF SOIL AND CROP SCIENCES.

A Microscopic-Scale Model of Soil Water Uptake and Salt Movement to Plant Roots,
W76-03860 9-08 2G

TEXAS A AND M. UNIV., COLLEGE STATION. DEPT. OF SOIL AND CROP SCIENCES; AND TEXAS AGRICULTURAL EXPERIMENT STATION, COLLEGE STATION.

Dynamic Simulation of Water Storage in Fallow Soil as Affected by Mulch of Hydrophobic Aggregates,
W76-03365 9-07 2G

TEXAS A AND M UNIV., COLLEGE STATION. DEPT. OF SOIL AND CROP SCIENCES AND TEXAS AGRICULTURAL EXTENSION SERVICE, COLLEGE STATION.

Simulation of Evaporation From Bare Soil Under Steady and Diurnally Fluctuating Evaporativity,
W76-01302 9-03 2D

TEXAS A AND M UNIV., COLLEGE STATION. DEPT. OF VETERINARY PHYSIOLOGY AND PHARMACOLOGY.

Acute Efects of Cadmium on Ictalurus Punctatus (Catfish),
W76-12331 9-23 5C

TEXAS A AND M UNIV., COLLEGE STATION. DEPT. OF WILDLIFE AND FISHERIES SCIENCES.

Age and Growth of Bluegill, Lepomis Macrochirus in Two Heated Texas Reservoirs,
W76-02318 9-05 5C

The Impact of Canyon Dam and Reservoir on Wildlife,
W76-05504 9-12 6G

Weight Loss, Mortality, Feeding, and Duration of Residence of Adult American Shad, Alosa Sapidissima in Fresh Water,
W76-08433 9-16 5C

Numbers of Individuals and Injury Rates of Fishes Caught on Revolving Screens at the P. H. Robinson Generating Station,
W76-08653 9-16 8I

Annual Cycle of Sportfishing Activity at a Warmwater Discharge into Galveston Bay, Texas,
W76-10541 9-20 5G

TEXAS A AND M UNIV., COLLEGE STATION. DEPT. OF WILDLIFE SCIENCE.

Seasonal Abundance and Distribution of Marine Fishes at a Hot-Water Discharge in Galveston Bay, Texas,
W76-12718 9-24 5C

TEXAS A AND M UNIV., COLLEGE STATION, REMOTE SENSING CENTER.

Remote Sensing Center Grant Program Summary,
W76-11766 9-22 7B

EXAS A AND M UNIV., COLLEGE STATION. /ATER RESOURCES INST.
Economic Effects of Land Subsidence Due to Excessive Groundwater Withdrawal in the Texas Gulf Coast Area,
W76-03099 9-07 4B

The Effect of Changing Input andProduct Prices on the Demand for Irrigation Water in Texas,
W76-10810 9-20 3F

Adjustments Due to a Declining Groundwater Supply: High Plains of Northern Texas and Western Oklahoma,
W76-10874 9-20 4B

TEXAS AGRICULTURAL EXPERIMENT TATION, COLLEGE STATION.
An Improved Cage Design for use in Culturing Channel Catfish,
W76-04424 9-09 8I

Losses of Nitrogen in Surface Runoff in the Blackland Prairie of Texas,
W76-12982 9-24 5G

TEXAS AGRICULTURAL EXPERIMENT STATION, COLLEGE STATION. DEPT. OF RECREATION AND PARKS.
An Evaluation of Some Recreational, Demographic and Economic Impacts of Canyon Lake,
W76-05506 9-12 6B

TEXAS AGRICULTURAL EXPERIMENT STATION, COLLEGE STATION. DEPT. OF SOIL AND CROP SCIENCES.
Solution Phosphorus Concentration and Growth of Rice (Oryza Sativa L.) in Flooded Soils,
W76-10122 9-19 3F

TEXAS AGRICULTURAL EXTENSION SERVICE, COLLEGE STATION.
An Experimental Oil Spill: The Distribution of Aromatic Hydrocarbons in the Water, Sediment, and Animal Tissues Within a Shrimp Pond,
W76-00149 9-01 5C

Animal Waste Management in Texas: Testimony Presented to the Solid Waste Study Committee of the Texas House of Representatives,
W76-00426 9-01 5G

Environmental Protection Guidelines for Dairies,
W76-00428 9-01 5G

Odor Intensities at Cattle Feedlots,
W76-00919 9-02 5A

Liquid Manure Management for Swine,
W76-01030 9-03 5E

Inclusion of Dried Poultry Waste as a Feed Ingredient in Catfish Rations,
W76-01091 9-03 5E

Legal Aspects of Odor and Dust from Feedlots,
W76-11054 9-20 5G

TEXAS AGRICULTURE EXTENSION SERVICE, COLLEGE STATION.
Effect of Aerially-Applied Malathion on Juvenile Brown and White Shrimp Penaeus Aztecus and P. Setiferus,
W76-03767 9-08 5C

TEXAS CHRISTIAN UNIV., FORT WORTH. DEPT. OF BIOLOGY.
A Simple Continuous-Flow Respirometer for Comparative Respiratory Changes in Medium-Sized Aquatic Organisms,
W76-08353 9-16 5C

TEXAS COASTAL AND MARINE COUNCIL, GALVESTON.
One Approach to the Superport/Refinery Question,
W76-12578 9-23 5G

TEXAS DEPT. OF COMMUNITY AFFAIRS, AUSTIN.
Changes in the Sedimentation Characteristics of an Urbanizing Watershed, Dallas and Collin Counties, Texas,
W76-09745 9-18 4C

TEXAS DEPT. OF HEALTH RESOURCES, AUSTIN. DIV. OF WASTEWATER TECHNOLOGY AND SURVEILLANCE.
Who Says Sewage Treatment Plants Have to be Ugly,
W76-09437 9-18 5D

TEXAS ENGINEERING EXPERIMENT STATION, COLLEGE STATION.
Analysis of the Role of the Gulf Intracoastal Waterway in Texas,
W76-12389 9-23 5G

TEXAS GENERAL LAND OFFICE, AUSTIN.
Texas Coastal Management Program. Hearing Draft. Executive Summary.
W76-11465 9-21 6B

Texas Coastal Management Program. Hearing Draft.
W76-11466 9-21 6B

Texas Coastal Management Program. Hearing Draft. Appendices.
W76-11467 9-21 6B

TEXAS PARKS AND WILDLIFE DEPT., AUSTIN, COASTAL FISHERIES BRANCH.
The Effects of Freshwater Inflows on Hydrological and Biological Parameters in the San Antonio Bay System, Texas,
W76-03420 9-07 2L

TEXAS PARKS AND WILDLIFE DEPT. HOUSTON.
Aquatic Plant Control Program for Alligator Weed and Water Hyacinth in Texas,
W76-11147 9-21 5G

TEXAS PARKS AND WILDLIFE DEPT., SEABROOK. SEABROOK MARINE LAB.
Causes and Probably Correctives for Oxygen Depletion Fish Kills in the Dickinson Bayou Estuary: A Field Study and Simplified Algal Assay,
W76-08690 9-16 5C

TEXAS RAILROAD COMMISSION, AUSTIN.
Regulation of Onshore and Offshore Oil Field Waste Disposal,
W76-08919 9-17 5E

TEXAS STATE DEPT. OF HEALTH, AUSTIN. DIV. OF WASTEWATER TECHNOLOGY AND SURVEILLANCE.
The Availability of Daphnia for Water Qyality Improvement and as an Animal Food Source,
W76-03552 9-08 5D

TEXAS STATE TECHNICAL INST., AMARILLO.
Influence of Soil-Water Potential on the Water Relationships of Honey Mesquite,
W76-00703 9-02 2D

TEXAS TECH UNIV., LUBBOCK.
Some Physical and Economic Aspects of Water Pollution Control for Cattle Feedlot Runoff,
W76-01034 9-03 5E

Dynamics of Playa Lakes in the Texas High Plains,
W76-02030 9-05 7B

TEXAS TECH. UNIV., LUBBOCK. DEPT. OF AGRONOMY.
Cattle Feedlot Pollution Study,
W76-01045 9-03 5E

TEXAS TECH UNIV., LUBBOCK. DEPT. OF CHEMICAL ENGINEERING.
A Systems Approach to Cattle Feedlot Pollution Control,
W76-00446 9-01 5G

TEXAS TECH UNIV., LUBBOCK. DEPT. OF CIVIL ENGINEERING.
The Exchange and Growth Potential of Phosphorus in Algae Cultures,
W76-05266 9-11 5C

TEXAS TECH UNIV., LUBBOCK. DEPT. OF GEOGRAPHY.
Institutional Constraints and Conjunctive Management of Water Resources in West Texas,
W76-05842 9-12 6E

TEXAS TECH UNIV., LUBBOCK. DEPT. OF GEOSCIENCES.
Effect of Cattle Feedlot Wastes Upon Ground Water--A Commentary,
W76-12366 9-23 5B

TEXAS TECH UNIV., LUBBOCK. DEPT. OF POLITICAL SCIENCE.
Attitudes and Public Participation on the High Plains Toward Groundwater Planning and Management Institutions,
W76-08375 9-16 6B

TEXAS TECH UNIV., LUBBOCK. DEPT. OF RANGE AND WILDLIFE MANAGEMENT.
Construction and Stabilization of Coastal Foredunes with Vegetation: Padre Island, Texas,
W76-11752 9-22 2L

TEXAS TECH UNIV., LUBBOCK. WATER RESOURCES CENTER.
Variation of Urban Runoff Quality and Quantity with Duration and Intensity of Storms - Phase III - Volume 1--Dry Weather Flows,
W76-08278 9-16 5B

Variation of Urban Runoff Quality and Quantity with Duration and Intensity of Storms - Phase III, Volume 2, Impacts of Dust Storms,
W76-08279 9-16 2A

Variation of Urban Runoff Quality and Quantity with Duration and Intensity of Storms - Phase III, Volume 3 - Analysis of Flow Models,
W76-08280 9-16 2A

Variation of Urban Runoff Quality and Quantity with Duration and Intensity of Storms - Phase III, Volume 4 - Project Summary,
W76-08281 9-16 5B

TEXAS TECH UNIV., LUBBOCK. WATER RESOURCES CENTER.

Factors Affecting Quality and Quantity of Feedlot Waste Collections,
W76-12364 9-23 5D

TEXAS UNIV. AT ARLINGTON.
Determination of Dispersive Clay Soil Erodibility by Using a Physical Test,
W76-12460 9-23 2G

TEXAS UNIV. AT ARLINGTON. DEPT. OF BIOLOGY.
Effects of Artificially Elevated Water Temperatures on the Growth, Reproduction and Life Cycle of a Natural Population of Physa Virgata Gould,
W76-03020 9-07 5C

TEXAS UNIV. AT ARLINGTON, DEPT. OF CIVIL ENGINEERING.
Nitrification Studies of Ship Channel Waters,
W76-09453 9-18 5D

TEXAS UNIV. AT AUSTIN.
Large Systems Approach to Water Quality Modelling and Management,
W76-02564 9-06 5B

Distributed Parameter Systems Approximation for Estuarine Water Quality Modelling and Control,
W76-02565 9-06 5B

A Non-Linear Programming Model for Evaluating Water Supply Policies in the Texas Coastal Zone,
W76-12680 9-24 6D

TEXAS UNIV. AT AUSTIN. BUREAU OF ECONOMIC GEOLOGY.
Shoreline Changes Between Sabine Pass and Bolivar Roads, an Analysis of Historical Changes of the Texas Gulf Shoreline,
W76-03133 9-07 2L

TEXAS UNIV. AT AUSTIN. CENTER FOR HIGHWAY RESEARCH.
Continuing Measurements of a Swelling Clay in a Ponded Cut,
W76-12818 9-24 8D

TEXAS UNIV. AT AUSTIN. CENTER FOR RESEARCH IN WATER RESOURCES.
Stochastic Projections for Water Resources Planning,
W76-05012 9-11 6A

An Approach to Research Administration,
W76-12575 9-23 6B

TEXAS UNIV. AT AUSTIN. DEPT. OF CHEMICAL ENGINEERING.
Kinetic Modeling of Aeration Basins,
W76-01286 9-03 5D

TEXAS UNIV. AT AUSTIN. DEPT. OF CHEMISTRY.
Spectrophotometric Determination of Ruthenium with 3- (2-Pyridyl) -5, 6-Diphenyl-1,2,4-Triazine,
W76-03299 9-07 5A

TEXAS UNIV. AT AUSTIN. DEPT. OF CIVIL ENGINEERING.
Trout Metabolism Characteristics and the Rational Design of Nitrification Facilities for Water Reuse in Hatcheries,
W76-01382 9-03 5D

A Lake--How Does It Behave,
W76-02644 9-06 5C

Can We Afford Zero Pollution Risk,
W76-03249 9-07 5G

TEXAS UNIV., AT AUSTIN. DEPT. OF CIVIL ENGINEERING; AND TEXAS UNIV. AT AUSTIN. DEPT OF ENVIRONMENTAL HEALTH ENGINEERING.
Poliovirus Inactivation by Activated Sludge,
W76-00256 9-01 5D

TEXAS UNIV. AT AUSTIN. DEPT. OF ELECTRICAL ENGINEERING.
Shooting Models for Salinity and Coliform,
W76-08134 9-16 5B

Large-Scale Estuarine Water Quality Matrix Model,
W76-10191 9-19 5B

A Boundary Value Approach for Estuarine Water Quality Modelling with Results for Jamaica Bay, New York,
W76-11881 9-22 5B

Large Scale Systems Approach to Estuarine Water Quality Modelling with Multiple Constituents,
W76-12517 9-23 5B

TEXAS UNIV. AT AUSTIN. DEPT. OF GEOLOGICAL SCIENCES.
Flood Hazards Along the Balcones Escarpment in Central Texas--Alternative Approaches to their Recognition, Mapping, and Management,
W76-03723 9-08 4A

TEXAS UNIV. AT AUSTIN. DEPT. OF PETROLEUM ENGINEERING.
Development and Field Testing of a Basin Hydrology Simulator,
W76-05745 9-12 2A

TEXAS UNIV. AT AUSTIN. DEPT. OF ZOOLOGY.
Ultrastructural Changes in the Hepatocytes of Green Sunfish, Lepomis Cyanellus Rafinesque, Exposed to Solutions of Sodium Arsenate,
W76-10062 9-19 5C

Thermal Effects on the Accumulation of Arsenic in Green Sunfish, Lepomis Cyanellus,
W76-12731 9-24 5C

TEXAS UNIV. AT AUSTIN. ENVIRONMENTAL HEALTH ENGINEERING GROUP.
Improving Mercury (II) Removal by Activated Carbon,
W76-05330 9-11 5D

TEXAS UNIV. AT AUSTIN, PORT ARANSAS. MARINE SCIENCE INST.
Observations on Fishes Killed by Cold at Port Aransas, Texas, 11-12 January 1973,
W76-12744 9-24 2L

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Studies on the Ca, Mg, and Sr Content of Freshwater Clamshells,
W76-06119 9-12 2H

TEXAS UNIV. AT DALLAS, RICHARDSON. INST. FOR ENVIRONMENTAL SCIENCES.
Potential Environmental Problems of Dredging and Dredged Material Disposal: Dredged Material Disposal Criteria,
W76-02449 9-05 5C

Analysis of Chromium in Natural Waters by Gas Chromatography,
W76-04761 9-10 5A

Phosphate, Algae, and Taconite Tailings in the Western Arm of Lake Superior,
W76-11441 9-21 5C

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Germination Responses of a New Mexico Population of Parry Agave (Agave Parryi Englem Var Parry I) To Constant Termperature, Water Stress, and pH,
W76-02456 9-05 2I

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The Climate of Chihuahua, Mexico,
W76-01703 9-04 2B

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Morbidity Risk Factors From Spray Irrigation With Treated Waste Waters,
W76-03546 9-08 5C

TEXAS UNIV. HEALTH SCIENCE CENTER, HOUSTON. SCHOOL OF PUBLIC HEALTH.
Quantitative Assessment of Changes in Urban Runoff,
W76-09267 9-17 4C

Alteration of Microbial Populations in Thermal Stress,
W76-11629 9-22 5D

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Controlled Eutrophication: Sewage Treatment and Food Production,
W76-03575 9-08 5D

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Evidence for the Occurrence of Specific Iron (III)-Binding Compounds in Near-Shore Marine Ecosystems,
W76-01101 9-03 5B

TEXAS UNIVERSITY AT AUSTIN. GEOTHERMAL STUDIES.
Water Required to Develop Geothermal Energy,
W76-13030 9-24 3E

TEXAS WATER DEVELOPMENT BOARD, AUSTIN. OPERATIONS DIV.
Will Texas Have Enough Water for the Electric Utility Industry,
W76-00421 9-01 6D

TEXAS WATER QUALITY BOARD, AUSTIN.
Getting the Most Out of an Infiltration/Inflow Analysis,
W76-06985 9-14 5D

Guidelines for Handling Liquid Waste from Feedlots,
W76-12368 9-23 5G

THAMES CONSERVANCY, LONDON (ENGLAND).
Principles of Water Quality Management--11. Fisheries and Amenity Requirements,
W76-02653 9-06 8I

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The Application of a Spillway for River Flood Control,
W76-05098 9-11 4A

Financing the New Water Authorities,
W76-05810 9-12 6C

Nitrates: What's Happening in Britain,
W76-09451 9-18 5D

THAMES WATER AUTHORITY, LONDON (ENGLAND). METROPOLITAN PUBLIC HEALTH DIV.
'Catty' Odours in Sewage Works,
W76-00266 9-01 5D

A Method for Assessing Friction Losses for a Non-Newtonian Fluid, Such as Sewage Sludge, under Laminar Flow Conditions,
W76-10009 9-19 5B

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Real-Time Management of Water-Resource Systems,
W76-05747 9-12 6A

THE RESEARCH GROUP, INC., ATLANTA, GA.
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W76-09747 9-18 4D

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Polynomial Approximation of the Kernels of Closed Linear Hydrologic Systems,
W76-04689 9-10 2A

Linear and Nonlinear Approaches for Short-Term Runoff Estimations in Time-Invariant Open Hydrologic Systems,
W76-10699 9-20 2E

THETFORD CORP., ANN ARBOR, MICH. (ASSIGNEE).
Sanitary Waste Treatment Plant,
W76-09414 9-18 5D

THILMANY PULP AND PAPER CO., KAUKAUNA, WIS.
A Mill, A River, and B(est) P(racticable) T(reatment),
W76-02475 9-05 5D

THIOKOL CORP., NEWTOWN, PA. (ASSIGNEE).
Catalytic Filtering-Incinerating Process and Device for Waste Water,
W76-08400 9-16 5D

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Maintenance Management of Waterworks System,
W76-11254 9-21 5F

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W76-03820 9-08 5C

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Stomach Cancer and Ecologic Factors in Japan,
W76-07424 9-14 5C

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High Ethylmercury in River Fish By Man-Made Pollution,
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Some Effects of Propionate on the Growth of Rhodopseudomonas Spheroides S,
W76-05462 9-11 5C

TOKYO SHIBAURA ELECTRIC CO., LTD. (JAPAN).
Instruments for Water and Sewage Treatment Plants (Jogesuido keiso kiki),
W76-06347 9-13 7B

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Water Wells as Possible Indicators of Tectonic Strain,
W76-10105 9-19 8G

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The Softening of the Kanto Volcanic Ash Soil, (In Japanese),
W76-09925 9-18 2G

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Evaluation of Flood Control Under Changing Conditions,
W76-09630 9-18 4A

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Development, Growth, and Relationship Between Temperature and Metamorphosis Rate of the Earlier Larvae on Macrobrachium Rosenbergi (De Maan), (In Korean),
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Food Habit of Vorticellidae Isolated From Activated Sludge,
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Surveys on Radiation-Resistant Asporogenic Bacteria in Natural Environments,
W76-09519 9-18 5C

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Pore Volume Distribution and Curve of Water Content Versus Suction of Porous Body: 1. Two Boundary Drying Curves,
W76-12984 9-24 2G

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Decomposition of Particulate Organic Materials in Tokyo Bay at Summer Stagnation Period in 1972,
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Changes in the Activity of Fucoxanthin-Excited Photosynthesis in the Marine Diatom Phaeodactylum Tricornutum Grown Under Different Culture Conditions,
W76-11712 9-22 5C

Succession of Plankton Diatoms in Tokyo Bay, (In Japanese),
W76-12268 9-23 5C

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Spectral Analysis of Olfactory Responses to Amino Acids in Rainbow Trout, Salmo Gairdneri,
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TOKYO UNIV. OF FISHERIES (JAPAN). RADIOISOTOPE RESEARCH LAB.
Effects of Enriched Diet with Iron in Culture of Yellow-Tail, (In Japanese),
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TORAY INDUSTRIES, INC., TOKYO (JAPAN). (ASSIGNEE).
Apparatus for Photo-Oxidation of Water,
W76-04287 9-09 5D

Reverse Osmosis Separation Apparatus,
W76-05990 9-12 3A

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W76-07442 9-14 3F

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W76-01157 9-03 5C

Heavy-Metal Tolerance in Algae from Contaminated Lakes Near Sudbury, Ontario,
W76-01197 9-03 5C

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W76-07716 9-15 5C

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Fluctuations of Phytoplankton Biomass and its Composition in a Subarctic Lake During Summer,
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W76-03316 9-07 5A

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Hydraulic Jump in a Rough Channel,
W76-00311 9-01 8B

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Nutrient Transformations in a Swine Waste Oxidation Ditch,
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W76-04425 9-09 5D

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An Evaluation of Sediment Trap Methodology,
W76-01313 9-03 2J

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W76-09205 9-17 5D

Recent Trends of Process Control for Water Works and Drainage (Jogesuido purosesu seigyo no doko),
W76-09214 9-17 5G

Computer Control of Sewage and Rain Water Pumps at Sewage Treatment Plant (Gesuishorijo no osui, amamizu ponpu no keisanki seigyo),
W76-09215 9-17 8C

TOUCHE, ROSS AND CO., WASHINGTON, D. C.

Water Pollution Control Act of 1972, Institutional Assessment, Construction Grants.
W76-08194 9-16 5G

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The Lake Texcoco (Mexico) Sediments and their Capacity to Support Vegetation, (In French),
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Water Factory 21 is the Future,
W76-05782 9-12 5F

TRACY ENGINEERS, INC., CAMP HILL, PA.

Hatfield Township, Pennsylvania, Advanced Waste Treatment Plant,
W76-02761 9-06 5D

TRANE THERMAL CO. CONSHOHOCKEN, PA.

Liquid Waste Disposal System,
W76-05481 9-11 5D

TRANSPORTATION RESEARCH BOARD, WASHINGTON, D.C.

Pavement and Soil Characteristics.
W76-07323 9-14 8D

Frost, Moisture, and Erosion.
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Treatment of Electroplating Waste Waters by a Flotation Technique,
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W76-01167 9-03 5C

Development of Oxygen Deficits in 14 Southern Ontario Lakes,
W76-05679 9-12 5C

Development of Oxygen Deficits in 14 Southern Ontario Lakes,
W76-06715 9-13 5C

Comparative Studies of Plant Growth and Distribution in Relation to Waterlogging: VII. The Influence of Water-Table Fluctuations on Iron and Manganese Availability in Dune Slack Soils,
W76-12708 9-24 2I

TRENT UNIV., PETERBOROUGH (ONTARIO). DEPT. OF GEOGRAPHY.

Field Determination of the Densities of Lake Ice Sheets,
W76-12429 9-23 2C

TRI-STATE COLL., ANGOLA, IND.

Waste Water Treatment with an SO2 Removal By-Product,
W76-03333 9-07 5D

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The Tri-State Coastal Zone Management Perspectives.
W76-05260 9-11 6G

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A Comparison Between the Efficacy of Submarine Outfall Disposal of Advanced Primary Effluent and Conventional Treatment,
W76-09448 9-18 5E

TRINITY COLL., CAMBRIDGE (ENGLAND).
Suppression of Waves in Slotted-Walled Channel,
W76-08742 9-16 8B

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Mechanism of Death at High Temperatures in Helix and Patella,
W76-12746 9-24 5C

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W76-09882 9-18 2H

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What Should be Done with Haugatjern, (In Norwegian),
W76-07401 9-14 5C

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Water Transport in the Sill Area of Balsfjord North Norway, During Vernal Meltwater Discharge,
W76-09999 9-18 2L

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Zooplankton Diversity in Four Norwegian Fjords,
W76-07102 9-14 5C

TRONDHEIM UNIV. (NORWAY). INST. OF MARINE BIOCHEMISTRY.
Uptake of Zinc and Strontium by Brown Algae,
W76-05473 9-11 5C

TRONDHEIM UNIV. (NORWAY). VASSDRAGS-OG HAVNELABORATORIET.
Comparison Between Physical and Mathematical Modelling of a Tidal Fjord System in Northern Norway,
W76-10445 9-19 2L

Modelling of Suspension Currents,
W76-10449 9-19 5B

Seabed Scour by Currents Near Platforms,
W76-11087 9-20 8B

TRW, INC. REDONDO BEACH, CALIFORNIA.
Environmental Impact Assessment, Water Quality Analysis, Yadkin - Pee Dee River Basin,
W76-11781 9-22 5G

TRW SYSTEMS GROUP, REDONDO BEACH, CALIF.
ERTS Image Data Compression Technique Evaluation,
W76-02061 9-05 7C

Evaluation of Digitally Corrected ERTS Images,
W76-02062 9-05 7C

TSENTRALNII NAUCHNO-ISSLEDOVATEL'SKII I PROEKTNII INSTITUT LESOKHIMICHESKOI PROMYSHLENNOSTI, KHIMKI (USSR).
Purification of Gum Rosin Producing Plant Effluents from Resinous Substances (Ochistka stochnykh vod kanifol'noterpentinnogo proizvodstva ot smolistykh veshchestv),
W76-05735 9-12 5D

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Rapid Determination of the Cod of Effluents (Uskorennoe opredelenie KhPK stochnykh vod),
W76-05705 9-12 5A

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W76-08552 9-16 5C

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W76-08989 9-17 3C

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The Final Stages of Some Small Ponds in SW Germany, (In German),
W76-07269 9-14 5C

TULSA UNIV., OKLA.
Disposal of Soluble Inorganic Salts,
W76-06156 9-13 5D

TULSA UNIV., OKLA. DEPT. OF EARTH SCIENCES.
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W76-00292 9-01 5B

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W76-12267 9-23 5C

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W76-08301 9-16 3C

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Experimental Transplantation of the Clam Meretrix Casta (Chemnitz) in the Marine Fish Farm,
W76-05447 9-11 2L

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A New Color Removal Process: A Field Report,
W76-04223 9-09 5D

UKRAINIAN RESEARCH INST. OF THE FISH INDUSTRY, KIEV (USSR).
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W76-09800 9-18 8I

Quantity of Heterotrophic Bacteria on Some Higher Plants in Carp Ponds, (In Russian),
W76-12271 9-23 5B

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W76-10846 9-20 5D

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Allowance for Precipitation and Runoff Fluctuation Patterns in Computing Water Withdrawal for Irrigation Systems in the Southern Ukraine,
W76-05675 9-12 4A

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W76-02465 9-05 3E

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Effect of Zinc on the Movement Pattern of the Minnow Phoxinus Phoxinus L.,
W76-03582 9-08 5C

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A Description of the River Ricklea, Sweden, (In Swedish),
W76-04504 9-10 5B

The Energy Flow Through a Lotic Ecosystem, (In Swedish),
W76-05124 9-11 5B

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Outline of Future Research Activities at Ricklea Field Station, (In Swedish),
W76-05046 9-11 5C

Drift of Microalgae in Ricklean, Sweden, (In Swedish),
W76-05071 9-11 5C

UNIFLEX S.P.A., (ITALY). (ASSIGNEE).
Water Line,
W76-05541 9-12 3F

UNION CAMP CORP., PRINCETON, N.J.
The Effect on Brightness Stability of Pulp Constitution and Water Quality,
W76-04221 9-09 5D

UNION CARBIDE CORP., CHICAGO, ILL.
Automatic Sewer Sampling System Monitors for Spills,
W76-03696 9-08 5A

UNION CARBIDE CORP., NEW YORK.
Models to Predict Environmental Impact of Mine Drainage on Streams,
W76-04944 9-10 5B

UNION CARBIDE CORP., NEW YORK. (ASSIGNEE)
Warm Sludge Digestion with Oxygen,
W76-05026 9-11 5D

Integral Circular Wastewater Treatment Process,
W76-11222 9-21 5D

Hypolimnion Oxygenation,
W76-11454 9-21 5G

UNION CARBIDE CORP., OAK RIDGE, TENN. Y-12 PLANT.
Chromate Abatement in the Y-12 Plant's New Hope Pond,
W76-04842 9-10 5G

Denitrification of Acid Wastes from Uranium Purification Processes,
W76-04843 9-10 5D

UNION CARBIDE CORP., SOUTH CHARLESTON, W. VA.
Chemicals and Allied Products (Literature Reviews),
W76-12412 9-23 5D

UNION CARBIDE CORP., TARRYTOWN, N. Y. AQUATIC ENVIRONMENTAL SCIENCES.
Preplanning Mining Operations to Reduce the Environmental Impact of Mine Drainage on Streams,
W76-06939 9-14 5G

UNION CARBIDE CORP., TARRYTOWN, N.Y. ENVIRONMENTAL SCIENCE PROGRAM.
A Close-Interval Fractionator for Sediment Cores,
W76-01720 9-04 2J

UNION CARBIDE CORP., TONAWANDA, N.Y.
Nitrifying Organism Concentration and Activity,
W76-12647 9-23 5D

UNION CARBIDE CORP., TUXEDO, N.Y.
A Neutron Scattering Study of Water and Ionic Solutions,
W76-03261 9-07 1B

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W76-03260 9-07 1B

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Drought-Stress Avoidance in Three Pioneer Tree Species,
W76-00872 9-02 2I

UNION OIL CO. OF CALIFORNIA, BREA.
The Effect of Capillary Pressure in a Multilayer Model of Porous Media,
W76-04678 9-10 2F

UNION OIL CO. OF CALIFORNIA, BREA. (ASSIGNEE).
Method of Inhibiting Scale for High Temperature Steam Wells,
W76-11842 9-22 8G

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Reverse Osmosis Apparatus,
W76-04286 9-09 3A

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HTPGB1: A Computer Program for Calculating from Experimental Data the Variation in Heat Transfer Coefficient Round a Cylindrical Surface,
W76-12687 9-24 7C

UNITED NATIONS CENTRE FOR NATURAL RESOURCES, ENERGY AND TRANSPORT, NEW YORK.
The Integrated River Basin Concept and International Water Resources Management,
W76-07138 9-14 4A

UNITED NATIONS DEVELOPMENT PROGRAM, KOTA (INDIA). CHAMBAL LAND AND WATER USE AND MANAGEMENT PROJECT.
Studies on Evapotranspiration of Some Aquatic Weeds,
W76-10554 9-20 2D

UNITED NATIONS DEVELOPMENT PROGRAM. ROME (ITALY).
Determination of Water Requirements in Irrigation Projects,
W76-01881 9-04 3F

Investigations on Surface Irrigation Methods in the Euphrates Basin,
W76-01888 9-04 3F

UNITED NATIONS EDUCATIONAL, SCIENTIFIC, AND CULTURAL ORGANIZATION, PARIS (FRANCE).
Distribution and Structure of Benthic Assemblages in Puget Sound, Washington, USA,
W76-06015 9-12 5B

UNITED NATIONS, NEW YORK.
Integrated Development of the Vardar/Axios River Basin,
W76-08082 9-15 4A

UNITED STATES LAKE SURVEY, DETROIT, MICH.
Flood Plain Information: Clinton River and Paint Creek, Oakland County, Michigan.
W76-07720 9-15 4A

Flood Plain Information: Grand River, Grand Rapids, Michigan and Vicinity.
W76-07728 9-15 4A

Flood Plain Information: Middle River Rouge, Northville, Michigan.
W76-08820 9-17 4A

UNITED STATES STEEL CORP., PITTSBURGH, PA. (ASSIGNEE).
Apparatus for and a Method of Purifying Waste Fluid,
W76-02262 9-05 5D

Method of Purifying Waste Fluid,
W76-04197 9-09 5D

UNIVERSAL OIL PRODUCTS CO., DEL MAR, CALIF. ROGA DIV.
Meeting EPA Standards with Reverse Osmosis,
W76-05295 9-11 5D

UNIVERSAL OIL PRODUCTS CO., DENVER, COLO. JOHNSON DIV.
Air Rotary Drilling with Organic Polymers Offers Many Benefits,
W76-00388 9-01 8G

Cost Comparisons and Practical Applications of Air-Lift Pumping,
W76-00396 9-01 8C

Air Rotary Drilling with Organic Polymers Offers Many Benefits,
W76-05562 9-12 8B

UNIVERSAL OIL PRODUCTS CO., DES PLAINES, ILL. (ASSIGNEE).
Electronic Water Level Indicator,
W76-02246 9-05 7B

Cleaning of Membrane Surfaces,
W76-02263 9-05 3A

Portable Water Sampling Apparatus,
W76-05958 9-12 7B

UNIVERSAL OIL PRODUCTS CO., DES PLAINES, ILL. CORPORATE RESEARCH CENTER.
Sulfide Oxidation: Sulfox System of Pollution Control,
W76-04784 9-10 5D

UNIVERSAL OIL PRODUCTS CO., SAN DIEGO, CALIF. FLUID SYSTEMS DIV.
Development of Assymmetric Cellulose Triacetate Membranes for Seawater Desalination,
W76-08283 9-16 3A

UNIVERSAL OIL PRODUCTS COMPANY, DES PLAINES, ILL. (ASSIGNEE).
Composite Semipermeable Membranes Made from Polyethylenimine,
W76-10485 9-19 3A

UNIVERSAL OIL PRODUCTS, ST. PAUL, MINN. JOHNSON DIV.
Siphon System Yields Chilean Plant More Water,
W76-05550 9-12 8C

Careful Sample Taking is Key to Successful Wells,
W76-05560 9-12 4B

A Driller's Good Friend - The Electric Logger,
W76-05561 9-12 8G

Efficient Wells Save Energy and Reduce Costs,
W76-05563 9-12 4B

Use of Formation Stabilizer - A Valuable Technique,
W76-05564 9-12 8A

Proper Selection of Gravel Pack is Key to Successful Wells,
W76-05565 9-12 8C

UNIVERSIDAD AUSTRAL DE CHILE, VALDIVIA. INSTITUTO ZOOLOGIO.
The Eutrophication of Titi Lake and its Consequences for the Population of Dynamics of Zooplankton: 2, (In German),
W76-12594 9-23 5C

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Distributed Parameter Identification of Groundwater Systems by Nonlinear Estimation,
W76-11957 9-22 2F

UNIVERSIDAD DE NORTE, ANTOFAGASTA (CHILE). SEDE ANATOGAGASTA.
Periodicity in the Biometric Variations of Loxechinus Albus Molina, (In Spanish),
W76-09089 9-17 2I

UNIVERSIDAD DE ORIENTE, CUMANA (VENEZUELA). INST. OF OCEANOGRAPHY.
Distribution of Chaetognatha and Biomass of the Zooplankton in the Western Part of the Tropical Atlantic, During July and August 1968, (In Spanish),
W76-08245 9-16 2L

Environmental Conditions and Productivity in the Terminos Lagoon, Campeche, Mexico, (In Spanish),
W76-08900 9-17 2L

Notes on the Importance of Dissolved and Particulate Organic Matter in Marine Food Chains, (In Spanish),
W76-08916 9-17 5C

Some Observations on the Contamination of the Coastal Waters of the City of Cumana, (In Spanish),
W76-12467 9-23 5B

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Soil Moisture Regime with Subirrigation,
W76-13023 9-24 2G

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Comparison of Two Methods for Determination of Primary Productivity on Coastal Waters of the Gulf of Mexico, (In Spanish),
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Principal Economic Aspects of the Problem of Salinity of the Colorado River,
W76-05821 9-12 6E

NIVERSIDAD NACIONAL AUTONOMA DE IEXICO, MEXICO CITY. FACULTAD DE NGENIERIA.
On a Stochastic Model to Estimate Tsunami Risk,
W76-06189 9-13 2L

Distributions of BOD and Do In Rivers and Lakes,
W76-08743 9-16 5B

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Discovery of Ligula Intestinalis (Goeze 1782) Gmelin, 1790 in Lermichthys Mutiradiatus (Meek) (Pisces: Goodeidae), (In Spanish),
W76-12274 9-23 5C

UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO, MEXICO CITY. INSTITUTO DE GEOFISICA.
Numerical-Thermodynamical Prediction of Mean Monthly Ocean Temperatures,
W76-04677 9-10 2L

UNIVERSIDAD NACIONAL AUTONOMA DE MEXICO, MEXICO CITY. INSTITUTO DE INGENIERIA.
Some Features of Wind Action on Shallow Lakes,
W76-03380 9-07 2H

Theory of Multiple Leaky Aquifers 1. The Integrodifferential and Differential Equations for Small and Large Values of Time,
W76-09563 9-18 2F

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Skin Friction in Unsteady Laminar Pipe Flow,
W76-06389 9-13 8B

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Bacterial and Coliform Counts in the Water Supply of Slaughter Houses Situated in the Vicinity of Salvador-Bahia: Brief Note, (In Portuguese),
W76-11525 9-21 5A

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Hygienic Problems of Large Animal Confinement,
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Low-Temperature Heat Conduction in Pure, Monocrystalline Ice,
W76-07781 9-15 2C

UNIVERSITI SAINS MALAYSIA, PENANG. PUSAT PENGAJIAN SAINS KAJIHAYAT.
Studies on the Host Specificity of the Eyefluke Diplostomum Spathaceum, in Brown and Rainbow Trout,
W76-08302 9-16 5C

Methane Fermentation of Rubber (Hevea Brasiliensis) Latex Effluent,
W76-08722 9-16 5D

UNIVERSITY CITY SCIENCE CENTER, PHILADELPHIA, PA.
Storm Water Management Model: Dissemination and User Assistance,
W76-00678 9-02 5G

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Effect of Suspended Coal Particles on Life Forms of Aquatic Moss Eurhynchium Riparioides (HEDW): II. The Effect on Spore Germination and Regeneration of Apical Tips,
W76-12913 9-24 5C

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The Use of Adenosine Triphosphate Measurements in the Control of the Activated Sludge Process by the Solids Retention Time Method,
W76-05065 9-11 5D

The Biological Treatment of Food Industry Effluents,
W76-05346 9-11 5D

Practical Research in Water Pollution Control,
W76-06340 9-13 5D

The Nature of Activated Sludge Flocs,
W76-09188 9-17 5D

Microbial Aspects of Carbonisation Effluent Treatment,
W76-09712 9-18 5D

The Microbial Degradation of Oil in the Sea,
W76-11101 9-21 5B

UNIVERSITY COLL., CARDIFF (WALES). DEPT. OF MINERAL EXPLOITATION.
A Survey of the Heavy Metal and Inorganic Content of Sewage Sludges,
W76-03238 9-07 5A

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A Light Weight Corer for Sampling Soft Subaqueous Deposits,
W76-09266 9-17 2J

UNIVERSITY COLL., GALWAY (IRELAND).
A Discrete Linear Cascade Model for Hydrology,
W76-10946 9-20 2E

UNIVERSITY COLL., LONDON (ENGLAND).
Management of Underground Water Resources,
W76-00418 9-01 3B

Specifications for Granular Filter Media,
W76-00622 9-02 5D

Effect of Environmental Factors on Photosynthesis Patterns in Phaeodactylum Tricornutum (Bacillariophyceae). I. Effect of Nitrogen Deficiency and Light Intensity,
W76-12942 9-24 5C

UNIVERSITY COLL. OF ENGINEERING, BURLA (INDIA).
Swirling Circular Turbulent Wall Jets,
W76-12828 9-24 8B

UNIVERSITY COLL. OF NORTH WALES, BANGOR. DEPT. OF MARINE BIOLOGY.
The Ecology of Sublittoral Communities at Abereiddy Quarry, Pembrokeshire,
W76-03763 9-08 5C

UNIVERSITY COLL. OF NORTH WALES, BANGOR. MARINE SCIENCE LABS.
Seasonal Variation of Dissolved Metals in Inshore Waters of the Menai Straits,
W76-11722 9-22 5B

UNIVERSITY COLL. OF NORTH WALES, MENAI BRIDGE. MARINE SCIENCE LABS.
Natural Fluctuations in a Soft Bottom Benthic Community,
W76-03765 9-08 5C

The Winter Distribution of Ultra-Violet Absorption in the Surface Waters off the West Coast of the British Isles,
W76-06739 9-13 5B

Seasonal Distribution of Ultraviolet Absorption in the Surface Waters of Liverpool Bay,
W76-06740 9-13 5B

A Boundary Front in the Summer Regime of the Celtic Sea,
W76-07782 9-15 2L

Microbial Interaction with Oil in the Marine Environment,
W76-11015 9-20 5C

Spawning Littorina Littorea (L.) (Gastropoda: Prosobranchiata),
W76-12725 9-24 5C

UNIVERSITY COLL. OF SCIENCE, CALCUTTA (INDIA); AND UNIVERSITY COLL. OF TECHNOLOGY, CALCUTTA (INDIA).
Sewage Treatment with Activated Fly-Ash and Regenerated Alum Sludge,
W76-09183 9-17 5D

UNIVERSITY COLL. OF SOUTH WALES AND MONMOUTHSHIRE, CARDIFF. DEPT. OF BOTANY.
A Continuous Flow Apparatus for the Culture of Filamentous Green Algae,
W76-06244 9-13 5C

UNIVERSITY COLL. OF SWANSEA (WALES). DEPT. OF CIVIL ENGINEERING.
Applications of Electro-Osmosis to Ground-Water Flow Problems,
W76-03362 9-07 2F

UNIVERSITY COLL. OF WALES, ABERYSTWYTH. DEPT. OF BOTANY AND MICROBIOLOGY.
Studies of Tolerance to Heavy Metals in the Flora of the Rivers Ystwyth and Clarach, Wales,
W76-03053 9-07 5C

Studies of Tolerance to Heavy Metals in the Flora of the Rivers Ystwyth and Clarach, Wales,
W76-07712 9-15 5C

The Distribution of Stigeoclonium Tenue Kutz. In South Wales in Relation to its Use as an Indicator of Organic Pollution,
W76-07957 9-15 5B

UNIVERSITY COLL. OF WALES, ABERYSTWYTH. DEPT. OF GEOGRAPHY.
Initiation of Bed Forms and Meanders in Coarse-Grained Sediment,
W76-06385 9-13 2J

UNIVERSITY COLL. OF WALES, ABERYSTWYTH. DEPT. OF GEOLOGY.
Trace Metal Concentrations in Fucus from the Bristol Channel,
W76-11719 9-22 5C

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W76-04963 9-10 5A

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Studies of Gull Lake, Michigan: I. Seasonal and Depth Distribution of Phytoplankton,
W76-03338 9-07 5C

Removal of Dissolved Boron and Silicon During Estuarine Mixing of Sea and River Waters,
W76-09725 9-18 2K

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Caesium-137: Its Accumulation in a Littoral Community,
W76-11808 9-22 5C

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Accuracy of Soil Water Budgets Based on a Range of Relationships for the Influence of Soil Water Availability on Actual Water Use,
W76-02715 9-06 2G

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Water Quality in a Tropical Rain Forested Catchment,
W76-03132 9-07 5B

UNIVERSITY OF SOUTH FLORIDA, ST. PETERSBURG. DEPT. OF MARINE SCIENCE.
Physical, Chemical, and Optical Measures of Suspended-Particle Concentrations: Their Intercomparisons and Application to the West African Shelf,
W76-03887 9-08 2L

Light Scattering and Suspended Particulate Matter on a Transect of the Atlantic Ocean at 11 Deg N,
W76-03895 9-08 2L

UNIVERSITY OF SOUTH FLORIDA, ST. PETERSBURG, FLA.
Ecological Base-Line Study of the Fish of the Anclote Anchorage,
W76-02019 9-05 5C

Chlorinated Hydrocarbons in Mesopelagic Fishes of the Eastern Gulf of Mexico,
W76-08434 9-16 5C

UNIVERSITY OF SOUTH FLORIDA, TAMPA.
Simultaneous Process-Response Study on the East and West Coasts of Lake Michigan,
W76-01494 9-03 2J

UNIVERSITY OF SOUTH FLORIDA, TAMPA. DEPT. OF BIOLOGY.
Sphaeroma Terebrans: A Threat to the Mangroves of Southwestern Florida,
W76-00998 9-02 5C

On the Mariculture of the Florida Seaweed, Eucheuma Isiforme,
W76-01151 9-03 6B

Distribution and Abundance of the Polychaetous Annelids in a South Florida Estuary,
W76-11987 9-22 5C

UNIVERSITY OF SOUTH FLORIDA, TAMPA. DEPT. OF CHEMISTRY.
Report on a Biochemical Red Tide Repressive Agent,
W76-07618 9-15 5C

UNIVERSITY OF SOUTH FLORIDA, TAMPA. DEPT. OF GEOGRAPHY.
Review of Offshore Exploration in Florida,
W76-11470 9-21 6G

Environmental Impacts of OCS Oil and Gas Activity,
W76-11471 9-21 6G

Environmental Impacts and Monitoring of Oil and Gas Pipelines: A Technical Note,
W76-11472 9-21 6G

UNIVERSITY OF SOUTH FLORIDA, TAMPA. DEPT. OF GEOLOGY.
Coastal Dynamics on Cedar Islands, Virginia,
W76-01325 9-03 2L

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Hydrologic Study of a Small Suburban Watershed,
W76-04510 9-10 4C

UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES. ALLAN HANCOCK FOUNDATION.
Some Factors Influencing Byssus Thread Production in Mytilus Edulis (Mollusca: Bivalves) Linnaeus, 1758,
W76-01903 9-04 5C

Field Sampling Methods and Techniques for Marine Organisms and Sediments,
W76-10402 9-19 5A

Marine Studies of San Pedro Bay, California. Part III. Thermal Tolerance and Sediment Toxicity Studies,
W76-11793 9-22 5C

Thermal Effects and San Pedro Bay,
W76-11794 9-22 5C

Preliminary Observations on the Lower Minimum Temperature Requirements of the Northern Anchovy,
W76-11795 9-22 5C

Effects of Sub-Normal Temperatures on Some Common Los Angeles Harbor Animals,
W76-11796 9-22 5C

Tolerance of Littorina Planaxis and Littorina Scutulata to Temperature Changes,
W76-11798 9-22 5C

Preliminary Investigations of the Effects of Resuspended Sediment on Two Species of Benthic Polychaetes from Los Angeles, Harbor,
W76-11799 9-22 5C

UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES. ENVIRONMENTAL ENGINEERING PROGRAM.
Chemistry of Sulfur Species and Their Removal from Water Supply,
W76-00108 9-01 5F

Mechanisms of Leachate Formation in Sanitary Landfills,
W76-11118 9-21 5B

UNIVERSITY OF SOUTHERN CALIFORNIA, LOS ANGELES. SCHOOL OF PUBLIC ADMINISTRATION.
The Development Criteria of the Preliminary Coastal Plan,
W76-13092 9-24 2L

UNIVERSITY OF SOUTHERN MISSISSIPPI, HATTIERBURG, BUREAU OF BUSINESS RESEARCH.
Development of Regional Water Management Systems Operational Procedures,
W76-11329 9-21 6E

UNIVERSITY OF SOUTHERN MISSISSIPPI, HATTIESBURG. DEPT. OF GEOGRAPHY AND AREA DEVELOPMENT.
Impact of Hurricane Tidal Surges on Subsequent Land Use Changes and Water Resources Reallocation,
W76-12461 9-23 4A

UNIVERSITY OF STRATHCLYDE, GLASGOW (SCOTLAND). DEPT. OF CIVIL ENGINEERING.
Sludge Activity and Full-Scale Plant Control,
W76-00252 9-01 5D

Interferences in the Electroanalytical Determination of Copper and Lead in Water and Waste Water,
W76-05045 9-11 5A

Density Current Surges I--Their Role in the Initial Dispersion of A Surface Field,
W76-10707 9-20 5B

Density Current Surges II--The Movement of Surges in a Turbulent Environment and Their Role in Surface Field Dispersion,
W76-10708 9-20 5B

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Water Temperature Variations Within a Major River System,
W76-08340 9-16 2E

UNIVERSITY OF THE NEGEV, BEERSHEBA (ISRAEL). RESEARCH AND DEVELOPMENT AUTHORITY.
Countercurrent Flow Osmotic Processes for the Production of Solutions Having a High Osmotic Pressure,
W76-04185 9-09 3A

Measurement of Hydraulic Conductivity and Diffusivity for Predicting the Process of Soil Water Infiltration from a Trickle Source,
W76-04700 9-10 2G

UNIVERSITY OF THE SOUTH PACIFIC, SUVA (FIJI). SCHOOL OF NATURAL RESOURCES.
Sewage Treatment and Discharge into Tropical Coastal Waters,
W76-00259 9-01 5E

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Comparison of Laboratory and Field Determined Saturated Hydraulic Conductivity and Prediction from Soil Particle Size,
W76-07698 9-15 2G

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Secular Changes in South Africa Rainfall: 1880 to 1972,
W76-03367 9-07 2B

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The Assignment of Rainfall Stations into Homogeneous Groups: An Application of Principal Component Analysis,
W76-03368 9-07 2B

On the Components of Time Series; The Removal of Spatial Dependence,
W76-08803 9-17 2B

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Design Flood Synthesis by Excess Rain Routing,
W76-08075 9-15 2A

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Hot Springs of Rhodesia: Their Noble Gases Isotopic and Chemical Composition,
W76-06190 9-13 2K

UNIVERSITY OF WALES INST. OF SCIENCE AND TECHNOLOGY, CARDIFF. DEPT. OF APPLIED BIOLOGY.
A Comparison of Four Samplers for Benthic Macroinvertebrates Inhabiting Coarse River Deposits,
W76-01909 9-04 7B

A Study of the Benthic Macro-Invertebrates of a Shallow Eutrophic Reservoir in South Wales with Emphasis on the Chironomidae (Diptera); Their Life Histories and Production,
W76-06747 9-13 5C

Distribution of Bdellovibrio Bacteriovorus in Sewage Works, River Water, and Sediments,
W76-09698 9-18 5A

A Rapid Method for the Simultaneous Determination of Paraquat and Diquat in Pond and River Waters by Pyrolysis and Gas Chromatography,
W76-10870 9-20 5A

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W76-01602 9-04 6C

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W76-01349 9-03 6B

International Externalities and Optimal Tax Structures,
W76-05446 9-11 5G

UNIVERSITY OF WESTERN ONTARIO, LONDON. DEPT. OF CIVIL ENGINEERING.
Groyne Stabilization of Slope Movements and Toe Erosion, Lake Huron Near Bayfield, Ontario,
W76-11290 9-21 8B

UNIVERSITY OF WESTERN ONTARIO, LONDON. DEPT. OF GEOGRAPHY.
Urban Water Management of an International River: The Case of El Paso -Juarez,
W76-05661 9-12 3D

International Management of the River Plate Basin,
W76-05756 9-12 4A

UNIVERSITY OF WESTERN ONTARIO, LONDON. DEPT. OF ZOOLOGY.
Temperature Selection in Brook Trout (Salvelinus Fontinalis) Following Exposure to DDT, PCB or Phenol,
W76-07714 9-15 5C

UNIVERSITY OF WESTERN ONTARIO, LONDON. FACULTY OF ENGINEERING SCIENCE.
Bacterial Degradation and Emulsification of No. 6 Fuel Oil,
W76-04060 9-09 5D

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W76-12964 9-24 6B

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W76-06591 9-13 4C

A Model for Water and Phosphorus Distribution on the Island of Goeteborg, (In Swedish),
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Nuclear Techniques in Hydrological Studies,
W76-09996 9-18 2F

UPPSALA UNIV. (SWEDEN). DEPT. OF METEOROLOGY.
Mesometeorological Studies of Precipitation,
W76-13186 9-24 2B

UPPSALA UNIV. (SWEDEN). INST. OF LIMNOLOGY.
Vegetation in Lake Tamnaren: Interpretation of Aerial Photos and Description of the Vegetation, (In Swedish),
W76-06781 9-13 2H

On Long-Term Stability of Zooplankton Composition,
W76-09600 9-18 5C

UPPSALA UNIV. (SWEDEN). INST. OF ZOOLOGY.
Benthic Fauna and Zooplankton in Some Polluted Swedish Estuaries,
W76-01194 9-03 5B

Pikes (Esox Lucius L.) Shown to be Affected by Low pH Values During First Weeks After Hatching,
W76-10343 9-19 5C

On the Coexistence of Scavengers on Shallow Sandy, Bottoms in Gullmar Fjord (Sweden), Adaptations to Substratum, Temperature, and Salinity,
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Design of Irrigation Runoff Recovery Systems,
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W76-06583 9-13 2G

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Water Pollution Control Act of 1972, Regional Impacts, Colorado River Basin, (Part 2),
W76-10571 9-20 5G

Flow Resistance in Broad Shallow Grassed Channels,
W76-10710 9-20 2E

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Estimating the Cost of Waste Water Treatment Ponds,
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W76-12713 9-24 5G

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W76-07409 9-14 2K

Application of Ion Exchange Methods for the Determination of Trace Elements in Natural Waters-III: Thorium, (In German),
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W76-00143 9-01 5C

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W76-01839 9-04 7B

Drastic Reduction of the White Perch, Morone Americana, Population in the James River, Virginia,
W76-01928 9-04 5C

Survival and Growth of Juvenile Striped Bass, Morone Saxatilis, in a Factorial Experiment with Temperature, Salinity, and Age,
W76-02390 9-05 5C

Effects of Brief Temperature Increases on Larvae of Mulinia Lateralis (Mollusca:Bivalvia),
W76-03041 9-07 5C

Epizootiology of Minchinia Nelsoni in Susceptible Wild Oysters in Virginia, 1959 To 1971,
W76-06035 9-12 5C

Nitrogen, Phosphorus and Carbon Flux in Chesapeake Bay Marshes,
W76-06162 9-13 5C

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W76-09665 9-18 6G

Distribution of Copper and Zinc in Oysters and Sediments from Three Coastal-Plain Estuaries,
W76-10279 9-19 5C

The Virginia Institute of Marine Science, Virginia's Marine Science, Engineering, Education, and Advisory Services Program,
W76-13100 9-24 6E

Applications of Remote Sensing to Estuarine Problems,
W76-13184 9-24 2L

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W76-07217 9-14 6G

Temperature Influence on Chemical Toxicity to Aquatic Organisms,
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Penetration and Mixing of Heated Discharges into Waterways,
W76-08926 9-17 5B

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The Influence of Flood Hazards Upon Residential Property Values,
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Land Prices in Flood Hazard Areas: Applying Methods of Land Value Analysis,
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Flood-Hazard Effects on Residential Property Values,
W76-12529 9-23 6G

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Finite Element Simulation of Flood Hydrographs,
W76-00303 9-01 2E

Shale Chiseling-Effect on Water Yield,
W76-06924 9-14 3B

Effect of Anaerobic Swine Lagoons on Groundwater Quality in High Water Table Soils,
W76-07190 9-14 5B

VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG. DEPT. OF AGRICULTURAL ENGINEERING; AND VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG. DEPT. OF CIVIL ENGINEERING.
Factors Affecting Water Quality from Strip-Mined Sites,
W76-07582 9-15 5B

VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG. DEPT. OF AGRONOMY.
Pollutant Movement to Ground Water from Swine Waste Lagoons,
W76-03973 9-08 5B

Effects of Fertilization and Irrigation on Yield and Potassium Content of Alfalfa and on Available Soil Potassium,
W76-06243 9-13 3F

Relationship of Geomorphology to Origin and Distribution of a High Charge Vermiculitic Soil Clay,
W76-06926 9-14 2G

Phosphorus Distribution from Septic Tank Effluent in Coastal Plain Soils,
W76-10015 9-19 5B

VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG. DEPT. OF BIOCHEMISTRY AND NUTRITION.
Residue-Removal Methods for Pesticides and Industrial Chemicals Found in Aquatic Environments,
W76-05249 9-11 5A

VIRGINIA POLYTECHNIC INST. AND STATE UNIV. BLACKSBURG. DEPT. OF BIOLOGY.
Body Temperature Change of Bluegill Sunfish Subjected to Thermal Shock,
W76-00865 9-02 5C

Eutrophic Gradient in Smith Mountain Lake, Virginia,
W76-05627 9-12 5C

Assessment of a Stressed Macroinvertebrate Community,
W76-05636 9-12 5C

Laboratory and Field Temperature Preference and Avoidance Data of Fish Related to the Establishment of Standards,
W76-07494 9-15 5C

A Field Evaluation of the Effects of Heated Discharges on Fish Distribution,
W76-08088 9-15 5C

A Screening Bioassay Using Daphnia Pulex for Refinery Wastes Discharged into Freshwater,
W76-09653 9-18 5A

Laboratory Comparisons of Four Surface Microlayer Samplers,
W76-12397 9-23 2K

VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG. DEPT. OF BIOLOGY; AND VIRGINIA POLYTECHNIC INST. AND

STATE UNIV., BLACKSBURG. CENTER FOR ENVIRONMENTAL STUDIES.
The Effects of Temperature Upon the Toxicity of Chemicals to Aquatic Organisms,
W76-03413 9-07 5C

Significance of Detritus or Detritus-Associated Invertebrates to Fish Production in a New Impoundment,
W76-03654 9-08 5C

VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG. DEPT. OF BIOLOGY; VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG. CENTER FOR ENVIRONMENTAL STUDIES.
Temperatures Selected and Avoided by Fish at Various Acclimation Temperatures,
W76-10885 9-20 5C

VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG. DEPT. OF CHEMICAL ENGINEERING.
Temperature Effects on Aerobic Digestion Kinetics,
W76-03668 9-08 5D

VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG. DEPT. OF CIVIL ENGINEERING.
Effect of Halogens and Ozone on Schistosoma Ova,
W76-03252 9-07 5C

Free Surface Seepage Through Foundation and Berm of Cofferdams,
W76-04954 9-10 8D

Modeling the Effect of Waste Discharges in a Small Mountain Stream,
W76-05834 9-12 5B

Design Procedure for a Contact Stabilization Activated Sludge Process,
W76-09211 9-17 5D

VIRGINIA POLYTECHNIC INST. AND STATE UNIV. BLACKSBURG. DEPT. OF ECONOMICS.
The Impact of Large Temporary Rate Changes on Residential Water Use,
W76-07738 9-15 6D

VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG. DEPT. OF PHYSICS.
Water Pollution Monitoring Using Matched Spatial Filters,
W76-09194 9-17 5A

VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG. DEPT. OF POLITICAL SCIENCE.
Local Reapportionment: The Exemption of Water Management Districts,
W76-01968 9-04 6E

VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG. DIV. OF ENVIRONMENTAL AND URBAN SYSTEMS.
Assessing Physical Potential for Deep Disposal of Industrial Wastes by Wells in the Southeastern United States,
W76-03840 9-08 5E

VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG. SCHOOL OF BUSINESS ADMINISTRATION.
Approaches to Multiobjective Planning in Water Resource Projects,
W76-01335 9-03 6A

VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG. WATER RESOURCES RESEARCH CENTER.
Water Rights and Water Quality Management,
W76-01001 9-03 5G

Private Constraints on Ground-Water Contamination,
W76-03244 9-07 4B

Legal Controls for Protecting Underground Sources of Drinking Water,
W76-03435 9-07 5F

Legal Constraints on the Use of Wastewater for Food and Fiber,
W76-03562 9-08 6E

Ultimate Disposal by Means of Deep Well Injection: A Legal View,
W76-03839 9-08 5E

VIRGINIA POLYTECHNIC INST. AND STATE UNIV., BLACKSBURGH. DEPT. OF FISHERIES AND WILDLIFE SCIENCES.
Dissolved Oxygen Depletion in Static Bioassay Systems,
W76-00869 9-02 5A

VIRGINIA POLYTECHNIC INST. OF AND STATE UNIV., BLACKSBURG. DEPT. OF CIVIL ENGINEERING.
A Case Study of Non-Point Source Pollution in Virginia,
W76-04011 9-09 5B

VIRGINIA POLYTECHNIC INST. OF STATE UNIV., BLACKSBURG. DEPT. OF FORESTRY AND FOREST PRODUCT.
The Influence of Moisture Stress on Liriodendron Tulipifera L. Seedlings,
W76-07259 9-14 2I

VIRGINIA STATE WATER CONTROL BOARD, RICHMOND.
Estimating Selected Parameters for the Kentucky Watershed Model from Watershed Characteristics,
W76-09852 9-18 2A

VIRGINIA SUPPLY AND WELL CO., ATLANTA, GA.
How to Get Good Samples by Rotary Drilling,
W76-09363 9-17 8G

VIRGINIA UNIV., CHARLOTTESVILLE.
Atmospheric Reaeration in a River Using Productivity Analysis,
W76-03115 9-07 5G

VIRGINIA UNIV., CHARLOTTESVILLE. DEPT. OF BIOLOGY.
Microbiological and Chemical Enrichment of Freshwater-Surface Microlayers Relative to the Bulk-Subsurface Water,
W76-06124 9-12 5C

VIRGINIA UNIV., CHARLOTTESVILLE. DEPT. OF ENVIRONMENTAL SCIENCES.
Evaluating a Mathematical Model for Predicting Lake Eutrophication,
W76-02370 9-05 5C

Potential Effects Of Aquaculture On Inshore Coastal Waters,
W76-03585 9-08 5C

Storm Wave Climates at Cape Hatteras, North Carolina: Recent Secular Variations,
W76-04101 9-09 2L

A Method for Monitoring Eutrophication in Rivers,
W76-06803 9-14 5A

Urban Service Pricing and Land Use Some Preliminary Results,
W76-10193 9-19 6C

VIRGINIA UNIV., CHARLOTTSVILLE. SCHOOL OF LAW.
Freedom of Scientific Research: Stepchile of the Oceans,
W76-02094 9-05 6E

VISVESVARAYA REGIONAL COLL. OF ENGINEERING, NAGPUR (INDIA).
Measurement of Power Input in Flocculation,
W76-00608 9-02 5F

VOIT, MICHAEL, FA., WEISSENSTADT, (WEST GERMANY).
Apparatus, Installation, and Process for Dewatering Clarified Sludges (Vorrichtung, Anordnung und Verfahren zur Entwaesserung von Klaerschlaemmen),
W76-12503 9-23 5D

VOLCANI INST. OF AGRICULTURAL RESEARCH, BET DAGAN (ISRAEL).
Two-Deminsional Transport of Solutes During Nonsteady Infiltration From a Trickle Source,
W76-01303 9-03 2G

VOLCANI INST. OF AGRICULTURAL RESEARCH, BET-DAGAN (ISRAEL). DEPT. OF SOIL AND WATER.
Aspects of Soil Salinity and Sodicity in Relation to Irrigation and Reclamation,
W76-13126 9-24 3C

VOLCANI INST. OF AGRICULTURAL RESEARCH, BET-DAGAN (ISRAEL). DIV. OF SOIL CHEMISTRY AND PLANT NUTRITION.
Combined Irrigation and Fertilization of Tomatoes Grown on Sand Dunes,
W76-13127 9-24 3C

VOLCANI INST. OF AGRICULTURAL RESEARCH, ILANOT (ISRAEL). FORESTRY DIV.
Effects of Flooding and of Irrigation Water Salinity on Eucalyptus Camaldulensis Dehn. From Three Seed Sources,
W76-09664 9-18 3C

VOLGOGRAD AGRICULTURAL INST. (USSR).
Forecasting the Occurrence of Wind Erosion of Soil, (In Russian),
W76-00362 9-01 2J

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W76-06350 9-13 5F

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W76-09227 9-17 5F

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On the Occurrence of Pressure Water in Low Bogs, (In German),
W76-08105 9-16 2H

The Effect of Mineral Environment on the Geohydrological Situation in Low Bog Sites, (In German),
W76-08184 9-16 2H

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Water Supply and Wastewater Disposal - Planning and Problems - In Coastal Areas,
W76-11225 9-21 5D

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W76-02514 9-06 5D

RIJE UNIVERSITEIT, AMSTERDAM (ETHERLANDS). DEPT. OF ECONOMICS.
Towards Optimal Decision Strategies for Redevelopment Programs: A Case Study,
W76-07140 9-14 6B

RIJE UNIVERSITEIT, AMSTERDAM (ETHERLANDS). EARTH SCIENCES INST.
On the Origin of Pingos,
W76-00899 9-02 2C

VRIJE UNIVERSITEIT, AMSTERDAM (NETHERLANDS). INST. OF EARTH CIENCES.
The Evaporation and Sedimentation in Man-Made Arade Lake, Southern Portugal,
W76-10703 9-20 2D

VRIJE UNIVERSITEIT, AMSTERDAM (NETHERLANDS). INSTITUUT VOOR AARDWETENSCHAPPEN.
The Groundwater Outcrop-Erosion Model; Evolution of the Stream Network in the Netherlands,
W76-08515 9-16 2A

VSESOYUNZNYI NAUCHNO-ISSLEDOVATELSKII INSTITUT GIGIENI I TOKSIKOLOGII PESTITSIDOV, KIEV (USSR).
Possibility of Using Phenolic Resins in Household and Drinking Water Supply Systems, (In Russian),
W76-11560 9-21 5C

VSESOYUZNI NAUCHNO-ISSLEDOVATELSKII INSTITUT GIGIENI I TOKSIKOLOGII PESTITSIDOV, KIEV (USSR).
Hygienic Evaluation of Epoxy Compositions Intended for Use in Water Supply, (In Russian),
W76-03561 9-08 5C

VSESOYUZNYI NAUCHNII PLANOVII OTDEL BUMAZHNOI PROMYSHLENNOSTI MOSCOW (USSR).
Reduction of Effluent Volume and Fresh Water Consumption (Snizhenie ob'ema ctochnykh vod i raskhoda svezhej vody),
W76-05727 9-12 3E

VSESOYUZNYI NAUCHNO-ISSLEDOUATELSKII INSTITUT VODOSNABZHENIYA, KANALIZATSII, GIDROTEKHNICHESKIKH SOORUZHENII I INZHENERNOI GIDROGEOLOGII BAKU (USSR).
Determination of Volatile Phenols in Wastewaters of Chemical Pharmaceutical Industries, (In Russian),
W76-03639 9-08 5A

VSESOYUZNYI NAUCHNO-ISSLEDOVATELSKII INSTITUT ANTIBIOTIKOV, MOSCOW (USSR).
Experience in the Treatment of Highly-Concentrated Spent Native Solution of Benzyl Penicillin, (In Russian),
W76-11543 9-21 5D

VSESOYUZNYI NAUCHNO-ISSLEDOVATELSKII INSTITUT GIDROLIZNOI PROMYSHLENNOSTI, MOSCOW (USSR).
Modernized Operation of (Effluent) Purification Equipment (Sovershenstvovat' rabotu ochistnykh sooruzhenii),
W76-12511 9-23 5D

VSESOYUZNYI NAUCHNO-ISSLEDOVATELSKII INSTITUT GIDROTEKHNIKI I MELIORATSII, MOSCOW (USSR).
Use of Investment Models and Choice of Alternative Decisions for the Optimum Distribution of Water Resources at the Stage of Planning by Means of Computers,
W76-12561 9-23 6A

VSESOYUZNYI NAUCHNO-ISSLEDOVATELSKII INSTITUT GIGIENI I TOKSIKOLOGII PESTITSIDOV, KIEV (USSR).
Experimental Design in Sanitary Chemistry of Polymers, (In Russian),
W76-03709 9-08 5B

Determination of M-Phenylenediamine in Water, (In Russian),
W76-11730 9-22 5A

Sanitary-Chemical Investigation of the Migration of the Monomer from Caprolon into Water, (In Russian),
W76-12316 9-23 5B

Use of the Method of Mathematical Design of Experiment in Sanitary-Chemical Investigations of Epoxy Coatings, (In Russian),
W76-12393 9-23 5G

The Chromatographic Method of Determining Inorganic and Organic Mercury Compounds in Fresh Water, (In Russian),
W76-12569 9-23 5A

VSESOYUZNYI NAUCHNO-ISSLEDOVATELSKII INSTITUT ISKUSSTVENNOGO VOLOKNA USSR.
Full-Scale Tests of an Installation for Purification of Viscose Production Effluents by Electroflotation (Proizvodstvennye ispytaniya ustanovki elektroflotatsionnoi ochistki stochnykh vod viskoznykh proizvodstv),
W76-10837 9-20 5D

VSESOYUZNYI NAUCHNO-ISSLEDOVATELSKII INSTITUT LESOVODSTVA I MEKHANIZATSII LESNOGO KHOZYAISTVA, PUSHKINO (USSR).
Snow Accumulation and Melting in the Forest and in Clear-Cut Areas in the Central Ural,
W76-05929 9-12 2C

VSESOYUZNYI NAUCHNO-ISSLEDOVATELSKII INSTITUT PRUDOVOGO RYBNOGO KHOZIAISTVA, RYBNOE (USSR).
Physiological Evaluation of the Nutritional Value of Artificial Fish Feeds, (In Russian),
W76-09090 9-17 2I

VSESOYUZNYI NAUCHNO-ISSLEDOVATELSKII INSTITUT VODOSNABZHENIYA, KANALIZATSII, GIDROTEKHNICHESKIKH SOORUZHENII I INZHENERNOI GIDROGEOLOGII, MOSCOW (USSR).
Removal of Hydrogen Sulfide from Drinking and Industrial Water, (In Russian),
W76-11541 9-21 5F

Effect of the Operating Conditions of Recycling Water Supply Systems on the Quality of Reused Waste Waters, (In Russian),
W76-12907 9-24 5C

VSESOYUZNYI NAUCHNO-ISSLEDOVATELSKII INSTITUT VODOZNABZHENIYA, KANALIZATSKII, GIDROTEKHNICHESKIKH SOORUZHENII I INZHENERNOI GIDROGEOLOGII, MOSCOW (USSR).
Determination of Fluorine in Drinking Water with a Cerium(III)- or Lanthanum Alizarin Complex, (In Russian),
W76-09796 9-18 5A

VSESOYUZNYI NAUCHNO-ISSLEDOVTELSKII INSTITUT GIDROTEKHNIKI I MELIORATSII, MOSCOW (USSR).
Application of Mathematical Modelling to Water Quality Formation Processes for Operative Management of Complex Water Resources Systems,
W76-12547 9-23 5G

VSESOYUZNYI-NAUCHNYI PLANOVI OTDEL TSELLYULOZNO-BUMAZHNOI PROMYSHLENNOST, LENINGRAD (USSR); AND LENINGRADSKAYA LESTEKHNICHESKAYA AKADEMIYA (USSR).
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W76-00055 9-01 5A

VSESOYUZNYI NAUCHNYI PLANOVII OTDEL BUMAZHNOI PROMYSHLENNOST, MOSCOW (USSR).
Determination of Lignin in Effluents (Opredelenie lignina v stochnykh vodakh),
W76-11387 9-21 5A

Clarifiers with Suspended Sediment Layer for the Purification of Effluents (Osvetliteli so vzveshennym sloem osadka dlya ochistki stochnykh vod),
W76-11388 9-21 5D

Method of Controlling the Process of Chemical Purification of Effluents (Sposob operataivnogo upravleniya protsessom khimicheskoi ochistki stochnykh vod),
W76-11389 9 21 5D

VSESOYUZNYI NAUCHNYI PLANOVYI OTDEL BUMAZHNOI PROMYSHLENNOST, MOSCOW (USSR).
Photometric Method for the Control of Suspended Solids in Sedimentation Tanks (Fotometricheskii metod kontrolya vzveshennykh veshchestv v otstoinikakh),
W76-11390 9-21 5A

VSESPUUZNYI NAUCHNO-ISSLEDOVATELSKII INSTITUT GIGIENI I TOKSIKOLOGII PESTITSIDOV, KIEV (USSR).
Gas Chromatographic Analysis of Herbicides of the Carboxylic Acid Anilide Group, (In Russian),
W76-07224 9-14 5A

VTN, INC., ORLANDO, FLA.
Effective Use of High Water Table Areas for Sanitary Landfill. Vol. II,
W76-05744 9-12 5G

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Chromatographic Determination of DMA and DMF in Aqueous Medium,
W76-06390 9-13 5A

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Determination of Biological Degradability of Organic Substances,
W76-08351 9-16 5B

Residual Organic Matter in Activated Sludge Process Effluents VIII. Separation by Molecular Weights on Sephadex Columns (Zbytkove latky po aktivacnim procesu VIII. Deleni podle molekulovych hmotnosti na sephadexech),
W76-10514 9-20 5A

Residual Organic Matter in Activated Sludge Process Effluents. IX. Isolation from Water, Fractionation on Aluminum Oxide Columns and Attempts of Identification (Zbytkove latsy po aktivacnim procesu. IX. Izolace z vodneho prostredi, deleni na kyslicniku hlinitem a pokusy o identifikaci),
W76-10515 9-20 5A

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W76-00575 9-02 2I

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Study of Turbine Mixers for Flow-Through Flocculation Chambers (Vyzkum turbinovych michadel pro prutocne flokulacni komory),
W76-05703 9-12 5D

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W76-09787 9-18 4D

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Seepage Flow Through Homogeneous Soil into a Row of Drain Pipes,
W76-10919 9-20 4A

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W76-09364 9-17 5A

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W76-10327 9-19 5C

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W76-04293 9-09 5D

WALCHAND COLL. OF ENGINEERING, SANGLI (INDIA).
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W76-01626 9-04 5D

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Upflow Filter for Potable Water Production,
W76-00222 9-01 5F

WALNUT CREEK, CALIF.
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W76-04793 9-10 5C

Ecologic Modeling of Puget Sound and Adjacent Waters-Three-Dimensional Circulation Model.
W76-04794 9-10 5C

Ecologic Modeling of Puget Sound and Adjacent Waters--Estuary Ecologic Model.
W76-04795 9-10 5C

Ecologic Modeling of Puget Sound and Adjacent Waters--Lake Ecologic Model,
W76-04796 9-10 5C

Ecologic Modeling of Puget Sound and Adjacent Waters--Estuary Hydrodynamics Model,
W76-04797 9-10 5C

Ecologic Modeling of Puget Sound and Adjacent Waters--Finite Element Ecologic Model
W76-04798 9-10 5C

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Steel Selected for Tight Effluent Line.
W76-01459 9-03 8G

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W76-06302 9-13 5D

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W76-08026 9-15 5A

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W76-03717 9-08 5D

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W76-00153 9-01 2I

WASHINGTON STATE UNIV., PULLMAN. DEPT. OF CHEMICAL AND NUCLEAR ENGINEERING.
Trees as Environmental Sensors Monitoring Long-Term Heavy Metal Contamination of Spokane River, Idaho,
W76-03320 9-07 5A

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Ion Activity Electrode Method Yields Chloride Ion Concentration,
W76-03234 9-07 5A

Study of Silver Lake Eutrophication--Current Problems and Possible Solutions,
W76-04568 9-10 5C

A Theory of Flow Resistance for Vegetated Channels,
W76-09252 9-17 4A

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W76-01332 9-03 6B

Public Attitudes Toward Water Allocation in the State of Washington: Citizens, Interest Groups, and Agencies,
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Establishing Instream Flows: Analysis of the Policy-Making Process in the Pacific Northwest,
W76-11339 9-21 6B

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An Integrated Study on the Impact of Metallic Trace Element Pollution in the Coeur D'Alene-Spokane Rivers-Lake Drainage System,
W76-11488 9-21 5C

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On-The-Farm Determination of Animal Waste Disposal Rates for Crop Production,
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The Energies of the Plastic Deformation of Pack Ice by Ridging,
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Hydrologic Data Summary: Clearwater River Basin, Water Year 1973-1974,
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Evolution of the Cations Involved in Rain, Canopy Leachate and Drainage Water through a Forest Ecosystem, (In French),
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Operational Comparison of Stochastic Streamflow Generation Procedures,
W76-04727 9-10 2E

Use of State Estimation Techniques in Water Resource System Modeling,
W76-07143 9-14 5B

The Effects of Waste Water Diversion on Heavy Metal Levels in the Sediments of a Large Urban Lake,
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W76-01297 9-03 2C

University of Washington Water Stress Studies,
W76-01485 9-03 2C

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Upwelling Near Samalga Pass,
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Nutrient Transports Through Lancaster Sound in Relation to the Arctic Ocean's Reactive Silicate Budget and the Outflow of Bering Strait Waters.
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W76-06251 9-13 2E

Fish Passage Through Turbines, Conduits, and Spillway Gates,
W76-08651 9-16 8I

A High Capacity Sand Filter for Thermal Power Plant Cooling Water Intakes Part I: Model Studies and Fouling Control Techniques,
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Mesophilic Clostridia in Puget Sound,
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On the Methods of Determining the Sulfate Content of Water, and the Description of a New Photometric Method, (In Hungarian),
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Filtering Device,
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Economic Impact of Recent Environmental Legislation,
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Nitrate Determination With Indigo Carmine,
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W76-09423 9-18 5D

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R and D Priorities on the National Agenda for Water Pollution Control,
W76-01733 9-04 5G

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Conditioning Improves Sludge Filterability,
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Instrumentation for Monitoring Water Quality,
W76-00360 9-01 5A

The Application of Inclined Tubes or Plates to Sedimentation Tanks in Wastewater Treatment.
W76-01542 9-04 5D

Some Effects of Metals Discharged in Effluents and Possibilities for Their Recovery,
W76-01639 9-04 5D

The Removal of Inorganic Nitrogen from Sewage Effluents by Biological Denitrification,
W76-03347 9-07 5D

Analytical Methods for Organic Compounds in Sewage Effluents.
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The Breakdown of Synthetic Organic Compounds in Biological Processes,
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Instrumental Methods of Monitoring Organic Pollution,
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WRC Aids Unique Water Quality Monitoring Project.
W76-07613 9-15 5A

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W76-08180 9-16 5D

A Theoretical Study of Factors Influencing the Microbial Population Dynamics of the Activated-Sludge Process-II. A Computer-Simulation Study to Compare Two Methods of Plant Operation,
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Review of Advanced Treatment Techniques for Waste Water,
W76-09159 9-17 5D

The Use of Oxygen in the Treatment of Waste Water,
W76-09167 9-17 5D

Microbiology and Activated Sludge,
W76-09172 9-17 5D

Effects of Storm Discharges on River Water Quality,
W76-09401 9-18 5B

Increasing the Capacity of Sedimentation Tanks by Means of Sloping Plates,
W76-09706 9-18 5D

Assessment of the Maximum Concentration of Heavy Metals in Crude Sewage Which Will Not Inhibit the Anaerobic Digestion of Sludge,
W76-10040 9-19 5D

Oxygen Activated-Sludge Systems--I., Technical Review of the Use of Oxygen in the Treatment of Waste Water,
W76-12668 9-23 5D

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Absorptiometric Determination of Iron with T.P.T.Z.,
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Nitrate Removal from Water by Ion Exchange,
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W76-06420 9-13 4A

Improved Techniques for Water Resource Systems Design,
W76-09624 9-18 4A

Use of Simulation Models for the Evaluation of a Regional Water-Resource System,
W76-12540 9-23 6A

Use of Investment Models for the Long-Term Planning of a Water Resource System for England and Wales,
W76-12557 9-23 6A

WATER RESOURCES CENTER, BUDAPEST (HUNGARY).
Uncertainty in Water Resources Decision Making,
W76-05513 9-12 6A

Release Control Policy for a Large Lake Subject to Wind Waves,
W76-06421 9-13 4A

Ex Post Evaluation of the Socio-Economic Effectiveness of Large Water Resources Projects,
W76-07139 9-14 6B

WATER RESOURCES COUNCIL, WASHINGTON, D. C.
Water Resources Council - Freedom of Information.
W76-06836 9-14 6E

Options for Cost Sharing: Cost Sharing Issues--Dimensions, Current Situation and Options.
W76-08035 9-15 6C

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Estuarine Ecologic Simulations,
W76-09950 9-18 2L

Simulation of Tidal Hydrodynamics - Masonboro Inlet,
W76-09953 9-18 8B

Water Quality Analysis, Upper Rio Grande.
W76-11785 9-22 5G

WATER RESOURCES ENGINEERS, INC., SPRINGFIELD, VA.
Water Quality Analysis, Santee River Basin,
W76-10578 9-20 5G

WATER RESOURCES ENGINEERS, INC., WALNUT CREEK, CALIF.
A Conceptual Representation of the New York Bight Ecosystem,
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Use of Mathematical Models in the Palo Alto Marshland Rehabilitation Project,
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Feasibility of Modelling the Influences of Pit Recharge on Groundwater Levels and Quality in Alluvial Basins,
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Method for Removing Both Organic Matter and Bacteria from a Body of Water,
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Recovery of Materials from the Wastewater From Wine Distilleries by Drying the Mixture of Solid and Liquid Wastes,
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Process of Water Treatment,
W76-10971 9-20 5F

Water Treatment Device with Transitorized Circuit,
W76-11833 9-22 5F

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Value Conflicts and Water Supply Decisions,
W76-01350 9-03 6B

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The Catastrophic Drift of Stream Insects After Treatments with Methoxychlor (1,1,1-Trichloro-2,2-Bis(p-Methoxyphenyl) ethane),
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The Influence of Fish on the Distribution of Chaoborus spp. (Diptera) and Density of Larvae in the Matamek River System, Quebec,
W76-00993 9-02 2H

Population Dynamics of Cladocerans in Sunfish Lake, Ontario,
W76-12407 9-23 2H

A Counterstaining Technique for Use in Sorting Benthic Samples,
W76-12606 9-23 2I

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Removal of Phosphates and Metals from Sewage Sludges,
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Removal of Phosphates and Metals from Sewage Sludge,
W76-06375 9-13 5D

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Substrate Inhibition Kinetics: Phenol Degradation by Pseudomonas Putida,
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Environmental Chemistry in the Netherlands,
W76-01734 9-04 5A

Chlorination in Dilute Aqueous Systems; 2,4,6-Trichlorophenol,
W76-06306 9-13 5B

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Numerical Errors in Water Profile Computation,
W76-02688 9-06 8B

Intervention Analysis in Water Resources,
W76-03165 9-07 2E

Metagame Theory and its Applications to Water Resources,
W76-09847 9-18 6A

WATERLOO UNIV. (ONTARIO). DEPT. OF EARTH SCIENCES.

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Finite Element Mesh Gradation for Surface Waves,
W76-05919 9-12 8E

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W76-09255 9-17 2G

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W76-09564 9-18 5B

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W76-13050 9-24 5G

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Willingness to Pay as a Behavio··rial Criterion for Environmental Decision-Making,
W76-05826 9-12 5G

Environmental Impact Assessment as an Instrument of Public Policy for Controlling Economic Growth,
W76-05828 9-12 6G

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Some Observations on Cooling-Tower Plume Behavior at the Paradise Steam Plant,
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Numerical Two-Dimensional Flow Model for River Systems,
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Political Resolution of Environmental Conflicts,
W76-11129 9-21 6G

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Planning for the Rehabilitation of Gravel Pits,
W76-08087 9-15 4A

WATERLOOPKUNDIG LABORATORIUM, DELFT (NETHERLANDS).
Origin, Effect and Suppression of Secondary Waves,
W76-09878 9-18 2J

Movable-Bed River-Models,
W76-09969 9-18 2E

Hydrodynamic Transport Phenomena in Estuaries and Coastal Waters: Scope of Mathematical Models,
W76-09980 9-18 5B

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W76-11937 9-22 2L

WATERMANTION, INC., SAINT PAUL, MINN.
Remote Control of Combined Sewer Overflows,
W76-11630 9-22 5D

WATERMATION, INC., SAINT PAUL, MINN.
Computer Halts Flooding Complaints,
W76-12905 9-24 5D

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The Water Quality of the Lakes of Zurich and 'Walensee',
W76-04702 9-10 5C

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What Do We Do About the Water Pollution Control Act,
W76-13037 9-24 5G

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Control of Liquid Effluents from Chemical/Petrochemical Plants,
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Drilling Techniques in Ball Clays,
W76-00415 9-01 8C

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Prototype Design for a Closed Marine System Employing Quaternary Water Processing,
W76-04924 9-10 5G

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Alum Sludge from Water Plant Conditions Sewage Sludge,
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The Pori Process: Regeneration of Hydrochloric Acid from Spent Pickle Liquor,
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A Planning Study on Dairy Wastes Management,
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Turnover and Uptake of Dissolved Phosphate in Freshwater: A Study in Lake Kinneret,
W76-07430 9-14 5C

Carbon-13 Enriched Carbonate in Interstitial Waters of Lake Kinneret Sediments,
W76-12140 9-22 5C

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On Hammers,
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Ozone Provides Alternative for Secondary Effluent Disinfection. Part 1,
W76-09445 9-18 5D

Ozone Provides Alternative for Secondary Effluent Disinfection Part 2,
W76-09715 9-18 5D

Ozone Provides Alternative for Secondary Effluent Disinfection Part 3,
W76-11213 9-[illegible] 5D

WELSH SCHOOL OF PHARMACY, CARDIFF.
Laboratory Evaluation of the Coulter On-Line Particle Monitor,
W76-09699 9-18 5A

WENDELL ASSOCIATES, MCLEAN, VA.
A Study of Prospective Water Pollution Control Activities for the Ohio River Valley Water Sanitation Commission (Orsanco),
W76-05654 9-12 5G

WESLEYAN COLL. MACON, GA.
Planning and Selecting Multiobjective Projects by Goal Programming,
W76-06437 9-13 6A

WESLEYAN COLL., MACON, GA. DEPT. OF BUSINESS ADMINISTRATION.
A Portfolio Approach to Public Water Project Decision Making,
W76-05995 9-12 6B

WESSEX WATER AUTHORITY, BRISTOL (ENGLAND).
The Future of Water Resources,
W76-06324 9-13 5F

WESSEX WATER AUTHORITY, BRISTOL (ENGLAND). OPERATIONS DIRECTORATE.
Sewage as a Resource,
W76-05066 9-11 5D

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Water Resources Development of International Rivers with Special Reference to the Developing World,
W76-06486 9-13 4A

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Effect of Water Quality and Management Practices on Some Chemical Properties of Soils,
W76-09926 9-18 3C

Effect of Diluted Sea Water on the Base Status of an Acid Soil,
W76-11131 9-21 2G

WEST PAKISTAN UNIV. OF ENGINEERING AND TECHNOLOGY, LAHORE.
Extended Plain Sedimentation,
W76-07204 9-14 5D

WEST PAKISTAN WATER AND POWER DEVELOPMENT AUTHORITY, LAHORE.
Inter Basin Transfer of Water Resource Case Study of Indus Project,
W76-05753 9-12 4A

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Characterization of Usage and Wastewater in Roadside Rest Areas,
W76-05102 9-11 5D

Fecundity of the Brown Bullhead, Ictalurus Nebulosus (Le Sueur) in a Mine Acid Polluted River,
W76-05641 9-12 8I

Water Quality Model for Small Agricultural Watershed,
W76-06641 9-13 5B

WEST VIRGINIA UNIV., MORGANTOWN. AGRICULTURAL EXPERIMENT STATION.
An Assessment of the Agricultural and Processing Waste Problems and Control in West Virginia,
W76-04415 9-09 5G

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Water Quality and Phytoplankton Productivity of Summersville Reservoir,
W76-01143 9-03 5C

Food Habits of Ictalurus Nubulosus in Acid Polluted Water of Northern West Virginia,
W76-02319 9-05 5C

A Comparative Study of Chemical Loadings of Acid and Non-Acid Tributaries of Cheat Lake, West Virginia,
W76-06213 9-13 5B

Phytoplankton Generic Diversity and Biomass Estimates of a Monogahela River Acid Confluence,
W76-12748 9-24 5C

WEST VIRGINIA UNIV., MORGANTOWN, DEPT. OF GEOLOGY.
Geochemical and Sedimentological Analysis of Tygart Lake, West Virginia,
W76-00376 9-01 5B

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Effects of Grazing on Infiltration Rates in Waste Water Spray Fields,
W76-08352 9-16 5E

WEST VIRGINIA UNIV., MORGANTOWN. WATER RESEARCH INST.
Tolerance and Synthetic Ability of Sewage Microorganisms in Acid Mine Water,
W76-04725 9-10 5C

Runoff Studies on Small Watersheds,
W76-07673 9-15 2A

Physiological Effects of Sublethal Levels of Acid Water on Fish,
W76-08927 9-17 5C

Removal of Undesirable Cations from Acid Mine Water by a New Cation-Exchange Material,
W76-11776 9-22 5D

WESTERLY FILTRATION PLANT, TORONTO (ONTARIO). QUALITY CONTROL OFFICE.
Pre-Treatment of Water Supplies Utilizing Ferric Chloride,
W76-11252 9-21 5F

WESTERN AUSTRALIA DEPT. OF AGRICULTURE, SOUTH PERTH. SOILS DIV.
Plant Collection for Saltland Revegetation and Soil Conservation,
W76-09071 9-17 2I

WESTERN AUSTRALIA DEPT. OF FISHERIES AND FAUNA, PERTH.
Wilson Inlet: A Seasonally Closed Western Australian South Coast Estuary,
W76-09390 9-17 2L

WESTERN AUSTRALIA UNIV., NEDLANDS. DEPT. OF BOTANY.
Seagrasses of South-Western Australia With Special Reference to the Ecology of Posidonia Australis Hook F. in a Polluted Environment,
W76-00870 9-02 5C

WESTERN AUSTRALIA UNIV., NEDLANDS. DEPT. OF PHYSICS.
The Interpretation of the Crystalline and Air Bubble Structures of Hail Stones,
W76-06167 9-13 2B

WESTERN CAROLINA UNIV., CULLOWHEE, N.C. DEPT. OF BIOLOGY.
A Model of Water Content and Evaporation for Hardwood Leaf Litter,
W76-10270 9-19 2D

WESTERN CO. OF NORTH AMERICA, DALLAS, TEX.
Expansive and Shrinkage Characteristics of Cements Under Actual Well Conditions,
W76-00390 9-01 8F

WESTERN ELECTRIC CO., BUFFALO, N.Y.
Recycling of Cooling Water in Cable Manufacture,
W76-05120 9-11 5D

WESTERN ELECTRIC CO., INC., ALLENTOWN, PA. PLANT ENGINEERING DEPT.
Updating an Existing Pollution Control Facility at Western Electric,
W76-08477 9-16 5D

WESTERN ILLINOIS UNIV., MACOMB. PUBLIC POLICY RESEARCH INST.
Flood Hazard Patterns of Urban Development in the Upper Midwest,
W76-03627 9-08 4A

WESTERN INTERSTATE COMMISSION FOR HIGHER EDUCATION, BOULDER, COLO.
Environmental Impacts of Saline Seep in Montana,
W76-00193 9-01 2F

WESTERN MICHIGAN UNIV., KALAMAZOO.
River Quality and Industrial Adjustment: A Case Study,
W76-00039 9-01 5G

WESTERN ONTARIO UNIVERSITY, LONDON, CANADA, DEPARTMENT OF GEOGRAPHY.
UNIVERSITY OF WESTERN ONTARIO, LONDON. DEPT. OF GEOGRAPHY.
International Management of the Great Lakes-St. Lawrence Basin,
W76-11887 9-22 2H

WESTERN POTATO SERVICE, INC., GRAND FORKS, N. DAK.
Infrared Dry Caustic Vs. Wet Caustic Peeling of White Potatoes,
W76-06652 9-13 5D

WESTERN REGIONAL RESEARCH LAB., BERKELEY, CALIF.
Reduced-Water Cleaning of Tomatoes,
W76-04734 9-10 3E

WESTERN SCIENTIFIC SERVICES, INC., FORT COLLINS, COLO.
Development of an Experimental Hydrometeorological Data Collection Network,
W76-06606 9-13 2B

Development of an Experimental Hydrometeorological Data Collection Network,
W76-08694 9-16 2B

WSSI Final Report for the Colorado River Basin Pilot Project,
W76-10818 9-20 3B

WESTERN WASHINGTON STATE COLL., BELLINGHAM.
Behavioral Thermoregulation in Hypophysectomized and Sham-Operated Rainbow Trout, Salmo Gairdneri,
W76-12755 9-24 5C

WESTERN WASHINGTON STATE COLL., BELLINGHAM. DEPT. OF GEOGRAPHY.
Bayocean Spit, Oregon: History of Development and Erosional Destruction,
W76-00004 9-01 2L

WESTFIELD COLL., LONDON (ENGLAND). DEPT. OF ZOOLOGY.
Freshwater Ecology in the Mato Grosso, Central Brazil, IV: Associations of Testate Rhizopoda,
W76-04594 9-10 5C

WESTGATE RESEARCH CORP., MARINA DEL REY, CALIF.
UV-Ozone Oxidation/Sterilization Process,
W76-00243 9-01 5D

WESTINGHOUSE ELECTRIC CORP., LESTER, PA.
Final Report--Determining Feasibility of Alternative Approaches of Obtaining Solid-Dry Brine Effluent from Desalination Plants at Inland Locations,
W76-03152 9-07 3A

WESTINGHOUSE ELECTRIC CORP., MELBOURNE (AUSTRALIA).
Waste Water Treatment.
W76-10202 9-19 5D

WESTINGHOUSE ELECTRIC CORP., MONROEVILLE, PA. ENVIRONMENTAL SYSTEMS DEPT.
Environmental, Economic, and Social Considerations in Selecting a Cooling System for a Steam Electric Generating Plant,
W76-04804 9-10 6G

Some Terrestrial Considerations Associated with Cooling Tower Systems for Electric Power Generation,
W76-04821 9-10 5B

Drift Deposition Rates from Wet Cooling Systems,
W76-04830 9-10 5B

WESTINGHOUSE ELECTRIC CORP., PHILDELPHIA, PA. ENVIRONMENTAL SYSTEMS. DEPT.
Preliminary Studies on the Effects of Air Bubbles and Intense Illumination on the Swimming Behavior of the Striped Bass (Morone Saxitalis) and the Gizzard Shad (Dorosoma Cepedianum),
W76-08658 9-16 8I

WESTINGHOUSE ELECTRIC CORP., PITTSBURGH, PA.
Managing Industrial Waste Disposal,
W76-05310 9-11 5D

WESTINGHOUSE ELECTRIC CORP., PITTSBURGH, PA. (ASSIGNEE).
Standard Conductivity Cell for Measurement of Sea Water Salinity and Temperatures,
W76-01716 9-04 2K

Oscillator Circuit for Providing a Conductivity Ratio of Sea Water,
W76-02594 9-06 7B

WESTINGHOUSE OCEANIC DIV., ANNAPOLIS, MD.
Transport of Chlorinated Hydrocarbons in Sediments of the Upper Chesapeake Bay,
W76-10607 9-20 5B

WESTINGHOUSE RESEARCH LABS., PITTSBURGH, PA.
Thermodynamic of Salt Solutions and Geothermal Brines at Elevated Temperatures.
W76-05244 9-11 3A

WESTON (ROY F.), INC., HOUSTON, TEX.
How Many Sewer Leaks Can You Afford.
W76-09404 9-18 8G

WESTON (ROY F.) INC., ROSLYN, N.Y.
A Supplemental Socio-Environmental Decision Tool: Value Conflicts on Long Island,
W76-05049 9-11 5D

WESTON (ROY F.), INC., WEST CHESTER, PA.
Techniques for Decoloring Mill Wastewater,
W76-03097 9-07 5D

Petroleum Processing Wastes, (Literature Review),
W76-05093 9-11 5D

Evaluating Rotating Biological Contactor Performance,
W76-09173 9-17 5D

The Fate of Pollutants in Subsurface Environments,
W76-10253 9-19 5B

Optimization of Water Distribution Network Systems,
W76-11133 9-21 8B

Petroleum Processing Wastes, (Literature Reviews),
W76-12415 9-23 5D

Water-Pollution Instrumentation,
W76-12653 9-23 5A

WESTON (ROY F.), INC., WILMETTE, ILL.
Response of Activated Sludge to Quantitative Shock Loading,
W76-11201 9-21 5D

WESTON (ROY F.), NEW YORK.
A Matrix Approach for Determining Wastewater Management Impacts,
W76-11128 9-21 5G

WESTVACO CORP., COVINGTON, VA. COVINGTON RESEARCH CENTER.
Biometer Measurement of Activated Sludge at Westvaco Corporation,
W76-11375 9-21 5D

WESTVACO CORP., NEW YORK. (ASSIGNEE).
Decolorizing Method for Waste Kraft Paper Mill Effluents,
W76-08207 9-16 5D

WHARTON SCHOOL OF FINANCE AND COMMERCE, PHILADELPHIA, PA. DEPT. OF ECONOMICS.
Methdological Issues in the Econometric Estimation of Energy Demand Elasticities,
W76-09607 9-18 6A

WHITE AND BURKE, FORT COLLINS, COLO.
Water as a Tool in Land Use Control, Legal Considerations: An Exploratory Essay,
W76-01393 9-03 6E

WHITMAN AND HOWARD, INC., BOSTON, MASS.
Economizing in Design Without Sacrificing Quality,
W76-00208 9-01 5F

Combined Waste Treatment Proves Economical and Feasible,
W76-05787 9-12 5D

Pioneering in Water Filtration,
W76-06278 9-13 5F

WHITTEMORE SCHOOL OF BUSINESS AND ECONOMICS, DURHAM, N. H.
Baselines,
W76-07829 9-15 6E

The Territorial Sea,
W76-07830 9-15 6E

The Contiguous Zone,
W76-07831 9-15 6E

The Economic Zone,
W76-07832 9-15 6E

The Deep Sea-Bed,
W76-07834 9-15 6E

Fisheries,
W76-07835 9-15 6E

Islands and Archipelagoes,
W76-07838 9-15 6E

Marine Scientific Research and the Transfer of Technology,
W76-07839 9-15 6E

Settlement of Disputes,
W76-07840 9-15 6E

WIEDEMAN AND SINGLETON, ATLANTA, GA.
Waste Treatment for the Pabst Brewery at Perry, Georgia,
W76-01640 9-04 5D

WILEY AND WILSON, INC., LYNCHBURG, VA.
Design for Joint Treatment of Municipal and Paper Mill Waste at Lynchburg, Virginia,
W76-00042 9-01 5D

WILLIAM AND WORKS, GRAND RAPIDS, MICH.
Pond and Irrigation Systems Offer Economy and Flexibility,
W76-05774 9-12 5D

WILLIAM MATOTAN AND ASSOCIATES, ALBUERQUE, NEW MEX.
Albuquerque Plant Designed with Computer in Mind,
W76-12638 9-23 5D

WILLIAMS AND WORKS, GRAND RAPIDS, MICH.
Irrigation of Trees and Crops With Sewage Stabilization Pond Effluent in Southern Michigan,
W76-03560 9-08 5C

Plastic Pipe, Pressure Sewers, Mark Expansion,
W76-05765 9-12 5D

Design, Operation, and Monitoring of Municipal Irrigation Systems,
W76-05783 9-12 5E

WILMINGTON WATER DEPT., DEL. WATER COMMISSION.
Water Rate Reformulation,
W76-01605 9-04 6C

WILSON MUD SERVICE, LTD., EDMONTON (ALBERTA).
Treatment and Disposal of Waste Fluids from Onshore Drilling Sites,
W76-08910 9-17 5D

WIMPEY (GEORGE) AND CO. LTD., HAYES (ENGLAND). WIMPEY CENTRAL LAB.
Structural Model Studies for the Hendrik Verwoerd Dam,
W76-12523 9-23 8A

WINDSOR UNIV. (ONTARIO). DEPT. OF CIVIL ENGINEERING.
Quality and Variation of Pollutant Loads in Urban Stormwater Runoff,
W76-05576 9-12 5B

A Stable Numerical Model for Local Scour,
W76-05666 9-12 2J

WINDSOR UNIV., (ONTARIO). DEPT. OF GEOGRAPHY.
Domestic Sources of Stream Phosphates in Urban Streams,
W76-01263 9-03 5B

A Comparison of Canadian and United States Standard Methods of Measuring Precipitation,
W76-01858 9-04 2B

WINDSOR UNIV. (ONTARIO). DEPT. OF GEOLOGY.
Monitoring of Subsurface Waste-Disposal Operations: A Generalized Systems Approach with Examples from Canadian Case Histories,
W76-10662 9-20 5D

WISCONSIN DEPT. OF AGRICULTURE, MADISON.
The Role of the Wisconsin Department of Agriculture in Agricultural Pollution Prevention and Control,
W76-01018 9-03 5E

WISCONSIN DEPT. OF NATURAL RESOURCES, MADISON.
Phosphorus in Our Environment,
W76-01019 9-03 5B

Hydrogeologic Evaluation of Solid Waste Disposal in South Central Wisconsin,
W76-01273 9-03 5G

Aeration as a Lake Management Technique,
W76-07103 9-14 5C

Sources of Polychlorinated Biphenyls in Wisconsin,
W76-10844 9-20 5B

WISCONSIN DEPT. OF NATURAL RESOURCES, MADISON. WATER RESOURCES RESEARCH SECTION.
Upgrading Lakes--Lake Renewal and Management Techniques,
W76-02645 9-06 5G

WISCONSIN GEOLOGICAL SURVEY, MADISON.
Ground-Water Hydrology and Geology Near the July 1974 Phenol Spill at Lake Beulah, Walworth County, Wisconsin,
W76-02497 9-05 5B

A Digital-Computer Model for Estimating Drawdowns in the Sandstone Aquifer in Dane County, Wisconsin,
W76-02498 9-05 4B

WISCONSIN OFFICE OF THE GOVERNOR, MADISON. LIEUTENENT GOVERNOR.
Lakes and Wisconsin's Future,
W76-02652 9-06 6E

WISCONSIN PLANNING OFFICE, MADISON.
Impacts of Recreational Development: The Voyager Village Experience,
W76-12965 9-24 6B

WISCONSIN STATE DEPT. OF AGRICULTURE, MADISON. FOOD AND STANDARDS DIV.
Farm Animal Waste Management: What our Milk Market Requires,
W76-11050 9-20 5D

WISCONSIN STATE LAB. OF HYGIENE, MADISON.
Nitrates in Wisconsin Ground Water,
W76-03803 9-08 5B

WISCONSIN UNIV. CENTER SYSTEM-MARINETTE COUNTY, BAY SHORE. DEPT. OF ECONOMICS.
The Facts of Life,
W76-02651 9-06 6B

WISCONSIN UNIV.--EAU CLAIRE. DEPT. OF BOTANY.
Studies on the Tolerance of Young of the Year Mississippi River Fish to Heated Waters,
W76-01520 9-04 5C

WISCONSIN UNIV. EXTENSION, MADISON.
Harvesting as a Control for Aquatic Plants,
W76-03058 9-07 5G

A Guide to Wisconsin's Lake Management Law.
W76-06632 9-13 6E

WISCONSIN UNIV. EXTENSION, MADISON. ENVIRONMENTAL RESOURCES UNIT.
Identification and Management of Eurasian Water Milfoil in Wisconsin,
W76-06725 9-13 5C

The Use of Overwinter Draw Down for Aquatic Vegetation Management,
W76-08093 9-15 2I

WISCONSIN UNIV., GREEN BAY. COLL. OF ENVIRONMENTAL SCIENCE.
Flood Damage Reduction Potential of River Forecast,
W76-06435 9-13 6F

WISCONSIN UNIV., GREEN BAY. COLL. OF ENVIRONMENTAL SCIENCES.
Vegetation Changes in a Small Michigan Bog from 1917 to 1972,
W76-06761 9-13 2H

The Effect of a Fossil Fuel Power Plant's Cooling Water System on the Water Quality of Green Bay, Wisconsin,
W76-11319 9-21 5B

Phosphorus Cycling and Luxury Phosphorus Storage by Algae in the Waters of Green Bay,
W76-11332 9-21 5C

Bacterial Populations in Lower Green Bay,
W76-11428 9-21 2H

WISCONSIN UNIV., GREEN BAY. RECREATIONAL RESOURCE PLANNING.
Recreational Lakes...What Are The Problems,
W76-02643 9-06 6B

WISCONSIN UNIV., GREEN BAY. SCIENCE AND ENVIRONMENTAL CHANGE.
Sediment Yields from Roadsides: An Application of the Universal Soil Loss Equation,
W76-12206 9-23 4C

WISCONSIN UNIV., GREEN BAY. URBAN ANALYSIS.
A Cluster Analysis of Activity, Frequency, and Environment Variables to Identify Water-Based Recreation Types,
W76-12955 9-24 6B

WISCONSIN UNIV., MADISON.
Panel on Discipline Viewpoints and Positions: Ecology,
W76-00064 9-01 6G

Effect of Nutrient Input Reduction on the Eutrophication of the Madison Lakes.
W76-00500 9-01 5G

Green Bay Self-Purifies Algal Nutrients,
W76-00615 9-02 5C

Planning Land Application of Manure,
W76-00913 9-02 5B

Phosphorus in the Rural Ecosystem--Runoff From Agricultural Land,
W76-01017 9-03 5B

Sources and Fate of 'Available' Nitrogen in Rural Ecosystems,
W76-01031 9-03 5B

The Role of the Public in Decision-making,
W76-01357 9-03 6B

Antimycin: Beyond Teleocide,
W76-05662 9-12 5C

Lake Wingra, 1837-1973: A Case History of Human Impact,
W76-05997 9-12 5C

Temperature Optimum of Algae Living in the Outfall of a Power Plant on Lake Monona,
W76-06001 9-12 5C

Statistical Study of Phosphorus Removal in Wisconsin,
W76-07146 9-14 5A

A Comparison of Aerial Infra-Red and In-Situ Thermal Plume Measurement Techniques,
W76-08860 9-17 5A

Two-Dimensional Water Quality Modeling and Waste Treatment Optimization for Wide, Shallow Rivers,
W76-13058 9-24 5B

WISCONSIN UNIV., MADISON. COLL. OF AGRICULTURAL AND LIFE SCIENCES.
Runoff Control Systems for Concrete Dairy Cattle Yards,
W76-01039 9-03 5B

Manage Manure for Its Value,
W76-03969 9-08 5E

WISCONSIN UNIV., MADISON. COOPERATIVE EXTENSION PROGRAMS.
Wisconsin's Groundwater: An Invaluable Resource,
W76-00881 9-02 2F

WISCONSIN UNIV., MADISON. DEPT. OF AGRICULTURAL ECONOMICS.
Alternatives to Protect and Enhance Lakes,
W76-02648 9-06 5G

An Economic Evaluation of Alternative Sewerage Pricing and Investment Practices: The Madison Metropolitan Sewerage District,
W76-02864 9-06 5G

The Economics of Sewerage Pricing and Investment Policies: The Madison Metropolitan Sewerage District,
W76-04008 9-09 5G

WISCONSIN UNIV., MADISON. DEPT. OF AGRICULTURAL ENGINEERING.
Impact of Freezing and Thawing Soil Conditions on the Movement of Nutrients From Rural Lands,
W76-00502 9-02 5B

Large Piston Manure Pumps and Outside Manure Storages (Earthen Basins),
W76-07172 9-14 5D

Nutrient Losses from Manure Under Simulated Winter Conditions,
W76-07187 9-14 5B

Properties of Solids and Liquids from Stacked Manure,
W76-07197 9-14 5A

Nutrient Losses in Surface Runoff From Winter Spread Manure,
W76-12993 9-24 5B

WISCONSIN UNIV., MADISON. DEPT. OF AGRONOMY.
Plant Development Under Snow,
W76-06147 9-12 2I

WISCONSIN UNIV. MADISON, DEPT. OF BACTERIOLOGY.
Predicting the Ecological Consequences of Thermal Pollution from Observations on Geothermal Habitats,
W76-08883 9-17 5C

WISCONSIN UNIV., MADISON. DEPT. OF CHEMISTRY.
An Investigation of Three Methods for the Determination of Sub-micromolar ion Concentrations in Water,
W76-11331 9-21 5A

WISCONSIN UNIV., MADISON. DEPT. OF CIVIL AND ENVIRONMENTAL ENGINEERING.
Aircraft and Satellite Monitoring of Water Quality in Lake Superior Near Duluth,
W76-02051 9-05 5A

Performance of Single Household Treatment Units,
W76-12637 9-23 5D

WISCONSIN UNIV., MADISON. DEPT. OF ECONOMICS.
The Concept of Benefits in Cost-Benefit Analysis: With Emphasis on Water Pollution Control Activities,
W76-11154 9-21 5G

Some Institutional and Conceptual Thoughts on the Measurement of Indirect and Intangible Benefits and Costs,
W76-11156 9-21 6B

WISCONSIN UNIV., MADISON. DEPT. OF ENTOMOLOGY.

Pesticide Degradation by Marine Algae,
W76-03174 9-07 5C

Aquatic Insects of Wisconsin,
W76-06215 9-13 5C

Incorporation of 203HG into Methylmercury in Fish Liver: Studies in Biochemical Mechanisms in Vitro,
W76-10347 9-19 5C

WISCONSIN UNIV., MADISON. DEPT. OF FOOD SCIENCE.

Impact of the Individual Quick Blanch (IQB) Process on Cannery Waste Generation,
W76-04742 9-10 3E

WISCONSIN UNIV., MADISON. DEPT. OF FORESTRY.

Effects of Silicone Antitranspirant on Woody Plants,
W76-07260 9-14 2D

WISCONSIN UNIV., MADISON. DEPT. OF GEOGRAPHY.

Discharge Prediction, Present and Former, from Channel Dimensions,
W76-12198 9-23 2E

WISCONSIN UNIV., MADISON. DEPT. OF GEOLOGY AND GEOPHYSICS; WISCONSIN UNIV., MADISON. GEOPHYSICAL AND POLAR RESEARCH CENTER.

Advances in Geophysical Exploration of Ice Sheets and Glaciers,
W76-05381 9-11 2C

WISCONSIN UNIV., MADISON. DEPT. OF MECHANICAL ENGINEERING.

Mechanical Management of Aquatic Vegetation: Analytical Studies of Unit Operations Potentially Useful in Their Processing,
W76-05469 9-11 3B

WISCONSIN UNIV., MADISON. DEPT. OF METEOROLOGY.

Silver Iodide Aerosol Production by a Plated Hot-Wire Generator,
W76-02555 9-06 2B

WISCONSIN UNIV., MADISON. DEPT. OF RURAL SOCIOLOGY.

Methodological Strategies for Evaluating the Effect of Water Resources on Social Well-Being and Quality of Life,
W76-05362 9-11 6A

Some Comments on Rural Development Models and Concepts,
W76-05367 9-11 6B

WISCONSIN UNIV., MADISON DEPT. OF SOIL SCIENCE.

Column Studies of Soil Clogging in a Slowly Permeable Soil as a Function of Effluent Quality,
W76-00721 9-02 5B

Variability of Hydraulic Conductivity in Two Subsurface Horizons of Two Silt Loam Soils,
W76-09257 9-17 2G

Model for Predicting Simultaneous Movement of Nitrate and Water Through a Loamy Sand,
W76-12985 9-24 5B

WISCONSIN UNIV., MADISON. DEPT. OF SOILS.

Comparison of Inorganic Nitrogen Contents of Undisturbed, Cultivated, and Barnyard Soil Profiles in Wisconsin,
W76-05263 9-11 5B

WISCONSIN UNIV., MADISON. DEPT. OF ZOOLOGY.

Zooplankton Competition and Predation: An Experimental Test of the Size-Efficiency Hypothesis,
W76-01729 9-04 2H

Modeling the Effects of Temperature Changes on the Ecology of the Garter Snake and Leopard Frog,
W76-03495 9-07 5C

WISCONSIN UNIV., MADISON. DEPT. OF ZOOLOGY; AND WISCONSIN UNIV., MADISON. LAB. OF LIMNOLOGY.

Behavioural Thermoregulation and Activity Patterns in the Green Sunfish, Lepomis Cyanellus,
W76-10883 9-20 5C

WISCONSIN UNIV., MADISON. ENVIRONMENTAL AWARENESS CENTER.

An Environmental Land Planning Approach--Case Study, Lily Lake Project,
W76-02649 9-06 6B

WISCONSIN UNIV., MADISON. ENVIRONMENTAL RESOURCES EXTENSION.

The Impact of Overwinter Drawdown on the Aquatic Vegetation of the Chippewa Flowage, Wisconsin,
W76-06711 9-13 4A

WISCONSIN UNIV., MADISON. GRADUATE SCHOOL OF BUSINESS ADMINISTRATION.

Water Quality Control and Business Behavior, Wisconsin Univ., Madison. Graduate School of Business Administrations,
W76-01505 9-04 5G

WISCONSIN UNIV., MADISON. INLAND LAKES RENEWAL AND MANAGEMENT DEMONSTRATION PROJECT.

Upgrading Lakes--Land-Water Relationships,
W76-02646 9-06 5G

WISCONSIN UNIV., MADISON. INST. FOR ENVIRONMENTAL STUDIES.

Panel on Discipline Viewpoints and Positions: Socio-Economics,
W76-00062 9-01 6B

The Green Bay Watershed - Past/Present/Future,
W76-06569 9-13 5C

WISCONSIN UNIV., MADISON. LAB. OF LIMNOLOGY.

Electrophysiological Studies of Morpholine-Imprinted Coho Salmon (Oncorhynchus Kisutch) and Rainbow Trout (Salmo Gairdneri),
W76-08438 9-16 5C

Experimental Confirmation of the Olfactory Hypothesis with Homing, Artificially Imprinted Coho Salmon (Oncorhynchus Kisutch),
W76-08439 9-16 5C

Low Thermal Responsiveness in the Bluegill, Lepomis Macrochirus,
W76-10369 9-19 5C

WISCONSIN UNIV., MADISON. MARINE STUDIES CENTER.

Horizontal Turbulent Energy Transfer Associated with a Great Lakes Coastal Current,
W76-02411 9-05 2H

Vertical Motions Along the North Shore of Lake Superior,
W76-11311 9-21 2H

WISCONSIN UNIV., MADISON. SCHOOL OF LAW.

The Settlement of International Environmental Disputes,
W76-11983 9-22 6E

WISCONSIN UNIV., MADISON. WATER CHEMISTRY LAB.

The Role of Amino Acids in the Nitrogen Cycle of Lake Mendota,
W76-01654 9-04 5C

A Simplified Phosphorus Analysis Technique,
W76-03705 9-08 5A

Phosphorus Sources for the Lower Madison Lakes,
W76-06718 9-13 5B

Phosphorus Mobility in Lake Ontario Sediments,
W76-11288 9-21 5B

Environmental Status of the Lake Michigan Region, Volume 3. Chemistry of Lake Michigan,
W76-12695 9-24 5C

WISCONSIN UNIV., MADISON. WATER CHEMISTRY PROGRAM.

Loss of P32-Phosphate and C14-Carbonate Activity During Liquid Scintillation Counting of Aqueous Samples,
W76-02417 9-05 5A

Phosphorus Availability in Particulate Materials Transported by Urban Runoff,
W76-08804 9-17 5B

Nitrogen Availability in Urban Runoff,
W76-12596 9-23 5B

WISCONSIN UNIV., MADISON. WATER RESOURCES CENTER.

Liquid Chromatographic Analyses in Soil Chemistry,
W76-01636 9-04 5A

Paper Chromatographic Analysis in Air Pollution,
W76-01637 9-04 5A

Paper Chromatographic Analysis in Soil Chemistry,
W76-01638 9-04 5A

Persistence of Endothall in the Aquatic Environment,
W76-01658 9-04 5B

Conference on the Management of Recreational Lakes.
W76-02641 9-06 6B

Lake Classification--A Trophic Characterization of Wisconsin Lakes,
W76-02764 9-06 2H

Nutrient Assessments as a Basis for Lake Management Priorities,
W76-06704 9-13 5C

Persistence of Diquat in the Aquatic Environment,
W76-07546 9-15 5C

ISCONSIN UNIV., MILWAUKEE. CENTER OR GREAT LAKES STUDIES.
Part 1. Physical Characteristics of Lake Michigan and Its Responses to Applied Forces,
W76-03106 9-07 2H

An Underwater Temperature-Depth Data Collection Device,
W76-09727 9-18 2H

A Normal Mode Method for Predicting Storm Surges on a Lake,
W76-10715 9-20 2H

The Crustacean Zooplankton of Green Bay, Lake Michigan,
W76-11278 9-21 2H

Temporal and Spatial Distributions of Planktonic Rotifers in Milwaukee Harbor and Adjacent Lake Michigan,
W76-11285 9-21 2H

Sources of Water Quality, Lake Level, Ice, Water Temperature, and Meteorological Data for the St. Lawrence Great Lakes,
W76-11363 9-21 7C

The Toxicity of Chlorine to Freshwater Organisms Under Varying Environmental Conditions,
W76-12889 9-24 5C

Effects of Chlorine and Sulfite Reduction on Lake Michigan Invertebrates,
W76-13113 9-24 5C

ISCONSIN UNIV., MILWAUKEE. COLL. OF PPLIED SCIENCE AND ENGINEERING.
Longshore Currents and Sediment Transport in West Shore of Lake Michigan,
W76-04958 9-10 2J

ISCONSIN UNIV., MILWAUKEE. DEPT. OF OTANY.
Environmental Status of the Lake Michigan Region, Volume 10. Vegetation of the Lake Michigan Drainage Basin,
W76-02560 9-06 2I

The Role of Emergent Macrophytes in Mineral Cycling in a Freshwater Marsh,
W76-10289 9-19 5C

ISCONSIN UNIV., MILWAUKEE. DEPT. OF NERGETICS.
Moody Diagram for Direct Pipe Diameter Calculation,
W76-01793 9-04 8B

ISCONSIN UNIV., MILWAUKEE, DEPT. OF EOLOGICAL SCIENCES.
Urbanization Impact on Water Quality During a Flood in Small Watersheds,
W76-01307 9-03 4C

ISCONSIN UNIV., OSHKOSH. DEPT. OF EOLOGY.
Use of Test Wells as Water-Quality Predictions,
W76-01768 9-04 5A

Hydrogeology of the South Fork of Long Island, New York,
W76-08347 9-16 2F

WISCONSIN UNIV., PARKSIDE, DEPT. OF EARTH SCIENCE.
Wisconsin Recreational Harbor Facilities Along Lake Michigan,
W76-06628 9-13 6B

WISCONSIN UNIV., RIVER FALLS. DEPT. OF FOOD SCIENCE.
Loading Characteristics Affecting the Performance of a Laboratory Dairy Waste Water Treatment System,
W76-04751 9-10 5D

WISE (HAROLD F.) AND ASSOCIATES, WASHINGTON, D. C.
Water Pollution Control Act of 1972, Institutional Assessment, Planning.
W76-08192 9-16 5G

WITTEVEEN AND BOS., DEVENTER (NETHERLANDS).
Industrial Experience of Sewage Sludge Processing with Zimpro Installations in the Netherlands,
W76-09709 9-18 5D

WND-WORTHINGTON-SIMPSON LTD., NEWARK (ENGLAND).
Which Pump.
W76-00416 9-01 8C

WOLLONGONG UNIV. COLL. (AUSTRALIA). DEPT. OF CIVIL ENGINEERING.
Hydrograph Synthesis Using Mathematical Models,
W76-01418 9-03 2A

WOLLONGONG UNIV. COLL. (AUSTRALIA). DIV. OF BIOLOGY AND CHEMICAL SCIENCES.
An Evaluation of the Miller Method for Dissolved Oxygen Analysis,
W76-12144 9-22 5A

WOODROW WILSON INTERNATIONAL CENTER FOR SCHOLARS, WASHINGTON, D. C.
Future Prospects for Law of the Sea: Comments on Caracas and Predictions for the Future,
W76-07347 9-14 6E

WOODROW WILSON SCHOOL OF PUBLIC AND INTERNATIONAL AFFAIRS.
Commentary on: Future Prospects for Law of the Sea: Comments on Caracas and Prediction for the Future,
W76-07348 9-14 6E

WOODS HOLE OCEANOGRAPHIC INST. MASS.
Methods for Studying the Effects of Marine Oil Spills,
W76-05152 9-11 5C

WOODS HOLE OCEANOGRAPHIC INSTITUTION, MASS.
Current Related to Sediment Transport at the Ibero-Moroccan Continental Shelf,
W76-01491 9-03 2L

Interstitial Water Studies on Small Core Samples. Leg 15,
W76-01581 9-04 2J

Analysis of Hydrocarbons in Marine Organisms: Results of IDOE Intercalibration Exercises,
W76-01901 9-04 5A

Vertical Energy Propagation of Inertial Waves: A Vector Spectral Analysis of Velocity Profiles,
W76-02711 9-06 2L

Diversity and Overlap as Measures of Environmental Quality,
W76-03024 9-07 6G

Part 2. Diffusion and Dispersion,
W76-03107 9-07 5B

Permissible Levels of Heavy Metals in Secondary Effluent for Use in a Combined Sewage Treatment-Marine Aquaculture System. I. Monitoring During Pilot Operation,
W76-03547 9-08 5C

Permissible Levels of Heavy Metals in Secondary Effluent for Use in a Combined Sewage Treatment-Marine Aquaculture System. II. Development of Guidelines by Method of Additions,
W76-03548 9-08 5C

Social, Political, Regulatory and Marketing Problems of Marine Waste-Food Recycling Systems,
W76-03563 9-08 6B

Experiences with a Marine Aquaculture-Tertiary Sewage Treatment Complex,
W76-03566 9-08 5D

Lateral Momentum Flux in Boundary Currents,
W76-03732 9-08 2H

Quantitative Biological Assessment of the Benthic Fauna in Deep Basins of the Gulf of Maine,
W76-03783 9-08 5B

A Piston Corer for Peat,
W76-04950 9-10 7B

Brackish-Water Phytoplankton Response to Temperature Elevation,
W76-05999 9-12 5C

A Piston Corer for Peat,
W76-06724 9-13 5A

Topographic Waves in Lake Ontario,
W76-07068 9-14 2H

Distributions of Transuranium Nuclides in Sediment and Biota of the North Atlantic Ocean,
W76-08602 9-16 5B

Comparison of the Distributions in Marine Sediments of the Fallout Derived Nuclides Fe 55 and Pu 239,240, A New Approach to the Chemistry of Environmental Radionuclides,
W76-08603 9-16 5B

Double-Tracer Studies to Optimize Conditions for the Radiochemical Separation of Plutonium from Large Seawater Samples,
W76-08610 9-16 5A

A Procedure for Analysis of Amercium in Marine Environmental Samples,
W76-08611 9-16 5A

Summary of Entrainment Research at the Millstone Point Nuclear Power Station, 1970 to 1972,
W76-08632 9-16 5C

Identification of Nitrogen as a Growth-Limiting Nutrient in Wastewaters and Coastal Marine

Waters Through Continuous Culture Algal Assays,
W76-09195 9-17 5A

Analyses of Hydrocarbons in Marine Organisms: Results of Idoe Intercalibration Exercises,
W76-10398 9-19 5A

Polycyclic Aromatic Compounds in Nature,
W76-10865 9-20 5B

The Use of Flowing Biological Systems in Aquaculture, Sewage Treatment, Pollution Assay and Foodchain Studies,
W76-10986 9-20 5C

A Kinetic Approach to the Effect of Temperature on Algal Growth,
W76-10987 9-20 5C

Removal of Inorganic Nitrogen in an Integrated Food Chain System,
W76-10988 9-20 5C

Relative Growth of Different Species of Marine Algae in Wastewater-Seawater Mixtures,
W76-10989 9-20 5C

Permissible Levels of Heavy Metals in Secondary Effluent for Use in a Combined Sewage Treatment-Marine Aquaculture System. I. Monitoring During Pilot Operation,
W76-10993 9-20 5D

Permissible Levels of Heavy Metals in Secondary Effluent for use in a Combined Sewage Treatment-Marine Aquaculture System. II. Development of Guidelines by Methods, of Additions,
W76-10994 9-20 5D

Near Surface Sampler,
W76-10995 9-20 5A

Integrated Systems of Mollusk Culture,
W76-10996 9-20 5C

Uptake, Translocation and Elimination of Individual Chlorobiophenyls by Oysters,
W76-11000 9-20 5C

Offshore Oil: Technology - And Emotion,
W76-11090 9-20 5G

Preliminary Results with a Pilot Plant Waste Recycling Marine-Aquaculture System,
W76-11932 9-22 5D

Occurrence, Viability and Significance of Resting Eggs of the Calanoid Copepod Labidocera Aestiva,
W76-12737 9-24 6G

Behavior of Lobsters (Homarus Americanus) in a Semi-Natural Environment at Ambient Temperatures and Under Thermal Stress,
W76-12761 9-24 5C

Skeletonema Menzelii Sp. Nov., A New Diatom from the Western Atlantic Ocean,
W76-12766 9-24 2L

A Volumetric Temperature/Salinity Census for the Middle Atlantic Bight,
W76-12990 9-24 2L

WOODS HOLE OCEANOGRAPHIC INSTITUTION, MASS. DEPT. OF BIOLOGY.
Nutrient Transformations in Mass Cultures of Marine Algae,
W76-06441 9-13 5C

Polyspecies Aquaculture Systems: The Detrital Trophic Level,
W76-06759 9-13 5C

Heat Exchangers for Use in the Culturing of Marine Organisms,
W76-10990 9-20 5G

Social, Political, Regulatory and Marketing Problems of Marine Waste-Food Recycling Systems,
W76-10991 9-20 5G

The Use of Power Plant Waste Heat in Marine Aquaculture,
W76-10992 9-20 5D

Polyspecies Aquaculture Systems: The Detrital Trophic Level,
W76-10997 9-20 5C

Comparison of the Food Chain Dynamics of the Polychaete, Nereis Virens Cultured on Animal Tissue and Detritus,
W76-10998 9-20 5C

Virus Survival Patterns in a Tertiary Sewage Treatment-Aquaculture Model System,
W76-10999 9-20 5D

WOODS HOLE OCEANOGRAPHIC INSTITUTION, MASS. DEPT. OF CHEMISTRY.
Evaluation of Some Methods of Analysis for Petroleum Hydrocarbons in Marine Organisms,
W76-00320 9-01 5A

Idoe-5 Intercalibration Sample: Results of Analysis After Sixteen Months Storage,
W76-10399 9-19 5A

WORCESTER POLYTECHNIC INST., MASS. DEPT. OF CIVIL ENGINEERING.
Modifications Improve Chlorine Contact Chamber Performance, Part I,
W76-03231 9-07 5F

Modifications Improve Chlorine Contact Chamber Performance, Part II,
W76-07056 9-14 5D

WORLD HEALTH ORGANIZATION, DAR ES SALAAM (TANZANIA). EAST AFRICAN AEDES RESEARCH UNIT.
Breeding Places and Seasonal Incidence of Aedes Aegypti, as Assessed by the Single-Larva Survey Method,
W76-06033 9-12 5G

WORLD HEALTH ORGANIZATION, GENEVA (SWITZERLAND).
International Conference on Environmental Sensing and Assessment, Volumes 1 and 2.
W76-10637 9-20 5A

Some International Activities in Environmental Monitoring,
W76-10644 9-20 5A

WORLD HEALTH ORGANIZATION, GENEVA (SWITZERLAND). CONTROL OF ENVIRONMENTAL POLLUTION AND HAZARDS.
Controlling Water Pollution,
W76-05061 9-11 5G

WORLD METEOROLOGICAL ORGANIZATION, GENEVA (SWITZERLAND).
Meteorological and Hydrological Data Required in Planning the Development of Water Resources (Planning and Design Level),
W76-03103 9-07 4A

River Basin Models and Their Application with Scarcity of Data
W76-05516 9-12 4A

A Review of Some Hydrological Studies Required the Design of Water Management Projects.
W76-05517 9-12 4A

Benefit and Cost Analysis of Hydrological Forecasts,
W76-05823 9-12 6B

Drought and Agriculture,
W76-06265 9-13 2B

WORLD METEOROLOGICAL ORGANIZATION, GENEVA (SWITZERLAND). WORKING GROUP ON HYDROLOGICAL FORECASTING.
Hydrological Forecasting Practices.
W76-06633 9-13 2A

WORLDWATCH INST., WASHINGTON, D.C.
Salting the Earth,
W76-04352 9-09 3C

Desertification: A World Problem,
W76-06592 9-13 4C

WORLEY ENGINEERING INC., HOUSTON, TEX.
Statistics of Random Wave Field,
W76-06397 9-13 8B

WORTHINGTON CORP., HARRISON, N.J.
Worthington Corporation Conceptual Design of a 50 MGD Desalination Plant.
W76-00170 9-01 3A

WRIGHT AND WRIGHT, INC., NEWTON CENTER, MASS.
Evaluation of an Infrared Oil Film Monitor,
W76-02544 9-06 5A

WRIGHT-MCLAUGHLIN ENGINEERS, DENVER, COLO.
Sewage Effluent Turned to Snow: Provides Storage, Removes Pollutants,
W76-13048 9-24 5D

WRIGHT STATE UNIV., DAYTON, OHIO.
Mathematical Modelling of an Aquatic Ecosystem: I,
W76-01195 9-03 5B

WRIGHT WATER ENGINEERS, INC., DENVER, COLO.
Colorado City Solves its Sand Pumping Problems,
W76-05559 9-12 8C

WROCLAW UNIV. (POLAND). DEPT. OF EXPERIMENTAL BOTANY.
The Influence of Gibberellic Acid and Kinetin on the Growth of Scenedesmus Quadricauda (Turp.) Breb.,
W76-12941 9-24 5C

WROCLAW UNIV. (POLAND). DEPT. OF MICROBIOLOGY.
The Effect of Microorganisms on Phytotoxicity of Herbicides. III. Interaction of Bacillus SP. 72 with Venzar,
W76-07105 9-14 5C

WUERZBURG UNIV. (WEST GERMANY). BOTANISCHES INSTITUT II.
The Daily Course of Water Potential and Water Balance of Plants Growing on Different Habitats of Middle Triassic Limestone in Franconia (In German),
W76-04955 9-10 2I

WYOMING UNIV., LARAMIE.
THE MEDICINE BOW ECOLOGY PROJECT: The Potential Sensitivity of Various Ecosystem Components to Winter Precipitation Management in the Medicine Bow Mountains, Wyoming,
W76-06610 9-13 5C

Precipitation Rates for Some Types of Solid Hydrometeors,
W76-06934 9-14 2B

Oversnow Runoff Events Affect Streamflow and Water Quality,
W76-09274 9-17 2C

WYOMING UNIV., LARAMIE. COLL. OF LAW.
Panel on Discipline Viewpoints and Positions: Political Science and Law,
W76-00063 9-01 6E

WYOMING UNIV., LARAMIE. DEPT. OF AGRICULTURAL ENGINEERING.
Changes in Climate and Estimated Evaporation Across a Large Irrigated Area in Idaho,
W76-06406 9-13 2D

Intercontinental Comparison of Evaporation Estimates,
W76-08800 9-17 2D

Comparison of Methods for Estimating Potential Evapotranspiration in the North Platte Basin of Wyoming,
W76-11115 9-21 2D

WYOMING UNIV., LARAMIE. DEPT. OF ATMOSPHERIC SCIENCE.
Heterogeneous Ice Nucleation in the Presence of Aliphatic Amines and Ammonia,
W76-10716 9-20 3B

WYOMING UNIV., LARAMIE. DEPT. OF ATMOSPHERIC SCIENCES.
Freezing Nucleation in Aqueous Electrolytes,
W76-01479 9-03 2B

WYOMING UNIV., LARAMIE. DEPT. OF CIVIL ENGINEERING.
Model Sand Filters for the Removal of Colloidal Manganese Oxides Using Selected Cations as Filter Aids,
W76-00111 9-01 5F

Soil Temperature Modeling Using Air Temperature as a Driving Mechanism,
W76-01079 9-03 7B

WYOMING UNIV., LARAMIE. DEPT. OF GEOLOGY.
Analysis of ERTS-1 Imagery of Wyoming and its Application to Evaluation of Wyoming's Natural Resources,
W76-08535 9-16 4A

WYOMING UNIV., LARAMIE. WATER RESOURCES RESEARCH INST.
Evapotranspiration by Phreatophytes in the North Platte Basin of Wyoming,
W76-00673 9-02 2D

Relationship of Duration of Flows and Selected Watershed Parameters to the Standing Crop Estimates of Trout Populations,
W76-00674 9-02 4D

Relationships Between Selected Physical Parameters and Benthic Community Structure in a Small Mountain Stream,
W76-01803 9-04 2I

Relationship of Discharge Reductions to Available Trout Habitat for Recommending Suitable Streamflows,
W76-01809 9-04 4A

'It's Our Water'--Can Wyoming Constitutionally Prohibit The Exportation of State Waters,
W76-03589 9-08 6E

Stream Channel Modification to Enhance Trout Habitat Under Low Flow Conditions,
W76-04724 9-10 8I

Hydrology of the Madison Formation and its Potential use for Water Supply for Energy Development,
W76-09757 9-18 2F

WYZSZA SZKOLA ROLNICZA, KRAKOW (POLAND). INSTYTUT ZOOLOGICZNY STOSOWANES.
Ichthyofauna of Certain Rivers in Southern Poland,
W76-02405 9-05 5B

XEROX CONTROLS, AZUSA, CALIF. (ASSIGNEE).
Drip Irrigation System and Components Thereof,
W76-02249 9-05 3F

YALE UNIV., NEW HAVEN, CONN.
A General Solution for Linear Decision Rules: An Optimal Dynamic Strategy Applicable under Uncertainty,
W76-04543 9-10 6A

An Economist's View of the Oceans,
W76-09617 9-18 6E

YALE UNIV., NEW HAVEN, CONN. SCHOOL OF LAW.
The Protection of the Environment and World Public Order: Some Recent Developments,
W76-04329 9-09 6G

YALE UNIV., NEW HAVEN, CONN. SCHOOL OF ORGANIZATION AND MANAGEMENT.
Reservoir Management Models,
W76-03162 9-07 4A

YAMATAKE-HONEYWELL CO., LTD., TOKYO (JAPAN). (ASSIGNEE).
Flowmeter for an Open Aqueduct,
W76-05540 9-12 7B

YAMAZAKI CHEMICAL LAB., YOSHII (JAPAN).
Investigations on the Conditions for Wet Air Oxidation of Collagen and Tallow as Main Components of Tannery Waste, (In Japanese),
W76-00121 9-01 5D

On the Wet Air Oxidation Products of Collagen and Tallow, (In Japanese),
W76-00131 9-01 5D

YANO GIKEN CO., LTD. OSAKA (JAPAN). (ASSIGNEE).
Method and Device for Attaching Shut-Off Control Valve to Distributing Water Pipe Such as Service Pipe Without Stopping Passage of Water Therethrough,
W76-09050 9-17 3F

YOKOSUKA WATERWORKS BUREAU (JAPAN).
Instrumentation and Control for Water Works (Suidosetsubi no keisoku to seigyo),
W76-09024 9-17 5F

YORK COLL., PA.
A Preliminary Report on the Conewago Creek Faunal Survey, Lancaster County, Pennsylvania,
W76-05470 9-11 5C

An Ichthyofaunal Survey and Discussion of Fish Species Diversity as an Indicator of Water Quality, Codorus Creek Drainage, York County, Pennsylvania,
W76-05634 9-12 5A

YORK UNIV., DOWNSVIEW (ONTARIO). DEPT. OF GEOGRAPHY.
The Effect of Road Deicing Salts on Sodium Concentration in an Urban Water Course,
W76-09218 9-17 5B

YORK UNIV., DOWNSVIEW (ONTARIO). DEPT. OF PHYSICS.
Turbulent Kinetic Energy Balance Near the Frozen Surface of Eastern Lake Ontario,
W76-11298 9-21 2H

YORKSHIRE RIVER AUTHORITY, LEEDS (ENGLAND). POLLUTION PREVENTION DEPT.
The Variation of Dissolved Constituents with Discharge in Some Norfolk Rivers,
W76-00991 9-02 5B

Dissolved Load and Tentative Solute Budgets of Some Norfolk Catchments,
W76-00992 9-02 5B

YORKSHIRE WATER AUTHORITY (ENGLAND), DIRECTORATE OF RESOURCE PLANNING.
The Barmby Tidal Barrage,
W76-04975 9-10 2L

YORKSHIRE WATER AUTHORITY (ENGLAND). NORTH CENTRAL DIV.
Developments in Sewage Treatment at Leeds,
W76-03679 9-08 5D

YUGOSLAVIC ACADEMY OF SCIENCE AND ARTS, ZAGREB. INST. FOR PHYSICS OF THE ATMOSPHERE.
Some Characteristics of A Dusty Rain in Yugoslavia,
W76-10906 9-20 5A

YULE, JORDAN AND ASSOCIATES, CAMP HILL, PA.
Erosion Control During Pipeline Construction,
W76-09743 9-18 5G

ZAGREB UNIV. (YUGOSLAVIA).
Extraction - Visible Spectrophotometric Method for Determination of Nitrate: Application to Water Analysis,
W76-05717 9-12 5A

ZAGREB UNIV. (YUGOSLAVIA). INSTITUT ZA BIOLOGIJO.
The Influence of Grass-Carp Population (Ctenopharyngodon Idella Val.) on the Vegetation and Ecosystem of Lake Trakoscan, (In Serbo-Croatian),
W76-12272 9-23 5C

ZAMBIA DEPT. OF FISHERIES, SAMFYA. FISHERY RESEARCH DIV.
Annulus Formation and Growth of Tigerfish, Hydrocynus Vittatus, in Lake Bangweulu, Zambia,
W76-12767 9-24 5C

ZAPOROZHSKII GOSUDARSTVENNYI MEDITSINSKII INSTITUT (USSR).
Problem of Blood-Sucking Flies in the Zones Affected by Big Water Reservoirs in the Ukrainian SSR, (In Russian),
W76-08991 9-17 5G

ZAVOD ZA BIOLOGIJU MORA, KOTOR (YUGOSLAVIA).
Bacterial Populations in Skadar Lake, (In Serbo-Croatian),
W76-11538 9-21 5C

ZEOPLANT CO. LTD., OSAKA (JAPAN). (ASSIGNEE).
Desalination Apparatus,
W76-05959 9-12 3A

ZIMPOO INC., ROTHSCHILD, WIS.
A Two-Step Process for Toxic Wastewaters,
W76-07746 9-15 5D

ZIMPRO INC., ROTHSCHILD, WIS.
Swiss Mill is Trying Wet Air Oxidation to Get Rid of Sludge and Recover Filler,
W76-12489 9-23 5D

ZOOLOGISCHE STAATSSAMMLUNG, MUNICH (WEST GERMANY).
The Influence of Food Supply on the Migration Pattern of the Teal (Anas Crecca), (In German),
W76-02884 9-06 2H

ZOOLOGISK MUSEUM, OSLO (NORWAY).
Important Aspects of the River Nursery Areas of Salmon, (In Norwegian),
W76-02972 9-06 2I

Studies on the Movement of Salmon and Trout Fry and Invertebrates into Flooded Areas, (In Norwegian),
W76-07285 9-14 2I

ZURICH UNIV. (SWITZERLAND). VETERINARY BACTERIOLOGICAL INST.
Sanitary Effect of Gamma Irradiation on Sewage Sludge,
W76-09527 9-18 5D

ACCESSION NUMBER INDEX

W76-00001	9-01	2B
W76-00002	9-01	2B
W76-00003	9-01	3F
W76-00004	9-01	2L
W76-00005	9-01	4B
W76-00006	9-01	2D
W76-00007	9-01	2G
W76-00008	9-01	5D
W76-00009	9-01	2B
W76-00010	9-01	2L
W76-00011	9-01	2K
W76-00012	9-01	2K
W76-00013	9-01	8B
W76-00014	9-01	8B
W76-00015	9-01	4A
W76-00016	9-01	2B
W76-00017	9-01	2B
W76-00018	9-01	2C
W76-00019	9-01	2B
W76-00020	9-01	2D
W76-00021	9-01	5A
W76-00022	9-01	8B
W76-00023	9-01	2G
W76-00024	9-01	5A
W76-00025	9-01	2F
W76-00026	9-01	2E
W76-00027	9-01	2D
W76-00028	9-01	2H
W76-00029	9-01	4B
W76-00030	9-01	2J
W76-00031	9-01	3F
W76-00032	9-01	2G
W76-00033	9-01	5A
W76-00034	9-01	8G
W76-00035	9-01	8B
W76-00036	9-01	8F
W76-00037	9-01	5A
W76-00038	9-01	5E
W76-00039	9-01	5G
W76-00040	9-01	5A
W76-00041	9-01	5D
W76-00042	9-01	5D
W76-00043	9-01	5D
W76-00044	9-01	2G
W76-00045	9-01	5C
W76-00046	9-01	5D
W76-00047	9-01	5D
W76-00048	9-01	5G
W76-00049	9-01	5D
W76-00050	9-01	5A
W76-00051	9-01	5D
W76-00052	9-01	5D
W76-00053	9-01	5D
W76-00054	9-01	5A
W76-00055	9-01	5A
W76-00056	9-01	5D
W76-00057	9-01	5D
W76-00058	9-01	5C
W76-00059	9-01	10C
W76-00060	9-01	2I
W76-00061	9-01	6B
W76-00062	9-01	6B
W76-00063	9-01	6E
W76-00064	9-01	6G
W76-00065	9-01	4A
W76-00066	9-01	4A
W76-00067	9-01	2H
W76-00068	9-01	2H
W76-00069	9-01	2H
W76-00070	9-01	4B
W76-00071	9-01	4B
W76-00072	9-01	6B
W76-00073	9-01	6B
W76-00074	9-01	3D
W76-00075	9-01	3D
W76-00076	9-01	3D
W76-00077	9-01	5G
W76-00078	9-01	5G
W76-00079	9-01	6A
W76-00080	9-01	6A
W76-00081	9-01	2G
W76-00082	9-01	5G
W76-00083	9-01	5G
W76-00084	9-01	4A
W76-00085	9-01	7C
W76-00086	9-01	7C
W76-00087	9-01	2A
W76-00088	9-01	8B
W76-00089	9-01	5E
W76-00090	9-01	3B
W76-00091	9-01	5A
W76-00092	9-01	7C
W76-00093	9-01	7C
W76-00094	9-01	7C
W76-00095	9-01	4B
W76-00096	9-01	7B
W76-00097	9-01	7C
W76-00098	9-01	7C
W76-00099	9-01	7C
W76-00100	9-01	7C
W76-00101	9-01	7C
W76-00102	9-01	5F
W76-00103	9-01	5F
W76-00104	9-01	5C
W76-00105	9-01	5A
W76-00106	9-01	5F
W76-00107	9-01	5D
W76-00108	9-01	5F
W76-00109	9-01	5F
W76-00110	9-01	5F
W76-00111	9-01	5F
W76-00112	9-01	5D
W76-00113	9-01	5D
W76-00114	9-01	5F
W76-00115	9-01	5F
W76-00116	9-01	5F
W76-00117	9-01	5F
W76-00118	9-01	5F
W76-00119	9-01	5F
W76-00120	9-01	5F
W76-00121	9-01	5D
W76-00122	9-01	5D
W76-00123	9-01	5D
W76-00124	9-01	5D
W76-00125	9-01	5D
W76-00126	9-01	5D
W76-00127	9-01	5G
W76-00128	9-01	5D
W76-00129	9-01	5D
W76-00130	9-01	5D
W76-00131	9-01	5D
W76-00132	9-01	5D
W76-00133	9-01	5D
W76-00134	9-01	5D
W76-00135	9-01	5C
W76-00136	9-01	5C
W76-00137	9-01	5C
W76-00138	9-01	5C
W76-00139	9-01	5C
W76-00140	9-01	5A
W76-00141	9-01	5C
W76-00142	9-01	5C
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